UNIVERSITY OF MASSACHUSETTS
BULLETIN

University of Massachusetts at Boston

1968-1969 Catalog

This catalog of the University of Massachusetts at Boston is presented for the reference purposes of faculty and students of the Boston campus. General rules and regulations, tuition, fees, requirements for admission, and the academic offerings for the 1968-1969 session are described herein; however, the University specifically reserves the right to make changes or withdrawals for itself or its departments at its discretion.

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University of Massachusetts at Boston 1968-1969 Catalog

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1968-1969 Academic Calendar

FALL TERM

Monday	Sept.	9	Orientation, Class of 1972
Tuesday	Sept.	10	Orientation
Wednesday	Sept.	11	Orientation
Thursday	Sept.	12	Registration, Upperclasses
Friday	Sept.	13	Registration, Class of 1972
Monday	Sept.	16	Classes begin
Saturday	Oct.	12	HOLIDAY
Saturday	Nov.	2	Mid-term grades close
Monday	Nov.	11	HOLIDAY
Wednesday	Nov.	27	Thanksgiving recess begins after last class
Monday	Dec.	2	Classes resume
Wednesday	Dec.	11	Counseling and Pre-Registration
Thursday	Dec.	19	Christmas vacation begins after last class
Thursday	Jan.	2	Classes resume
Wednesday	Jan.	8	Reading period begins after last class
Tuesday	Jan.	14	Final examinations begin
Friday	Jan.	24	Last day of final examinations

SPRING TERM

Monday	Feb.	3	Registration, Upperclasses
Tuesday	Feb.	4	Registration, Class of 1972
Wednesday	Feb.	5	Classes begin
Monday	Feb.	24	HOLIDAY
Monday	March	17	HOLIDAY
Friday	March	28	Mid-term grades close; Spring recess begins after last class
Monday	April	7	Classes resume
Monday	April	21	HOLIDAY
Thursday	May	8	Counseling and Pre-Registration
Monday	May	19	Reading period begins after last class
Saturday	May	24	Final examinations begin
Monday	June	2	HOLIDAY
Thursday	June	5	Last day of final examinations
To be announced			COMMENCEMENT

GENERAL INFORMATION

The University

The University of Massachusetts is the State University of the Commonwealth, founded in 1863 under the Morrill Land-Grant Act passed by the United States Congress in July, 1862. Now in its second century, the University serves the state and the nation in higher education as well as in research and public service. Chartered as the Massachusetts Agricultural College on April 29, 1863, the institution was established at Amherst and formally opened its doors to a handful of students in 1867.

The General Court of Massachusetts authorized a second name, Massachusetts State College, in April, 1931. Sixteen years later, in May, 1947, the institution became the University of Massachusetts.

Under the authorization of Chapter 562 of Acts of 1964 (General Laws of the Commonwealth of Massachusetts), the University of Massachusetts at Boston opened in September of 1965 to provide the people of the Metropolitan Boston area with a public, low-cost university based on a strong undergraduate program of liberal arts and sciences. This year, approximately 3400 seniors, juniors, sophomores and freshmen are enrolled in the University, which will graduate its first class in 1969. A graduate school and programs in specialized professional fields will be added in the future.

The University is located in the center of Boston, easily accessible to commuting faculty and students. It is next to the Statler Hilton Hotel at Park Square and within two blocks of the Arlington Street MBTA station, bus terminals and the Back Bay railroad station. The University's central thirteen-story building at 100 Arlington Street is supplemented by offices and classrooms in eight buildings located within a block of Park Square.

The University Library book collection contains approximately 50,000 volumes. Over 1,000 domestic and foreign journals are received currently in the periodical room. The main library, housed in the former First Cadet Armory, is a spacious and well-appointed building which provides room for housing books, seating students and conducting library operations. The library is easily accessible from all of the University buildings and forms a natural nucleus in its present site. In the main reading

room and the periodical room, individual carrels provide seating for 350 students. The library's resources support the teaching programs of the University on every level.

The University of Massachusetts at Boston offers an excellent educational opportunity to young people regardless of financial means, guided by the realization that to offer opportunities that do not equal the best available in other institutions means that people of limited income have access only to something less than the best, which perpetuates a class system of education.

Policy and Objectives

The University of Massachusetts at Boston is a new, public, urban university founded to help provide the educational opportunities and services required by one of the greatest urban concentrations of the nation.

It is committed to offering a liberal education of genuine quality, to communicating the truths and values of humanism, and to providing our society with the leadership and creativity which the future will demand.

Its objectives are to gather a community of scholars devoted to intellectual freedom and integrity, to preserve and extend knowledge and wisdom, and to build a university in the ancient tradition of Western civilization for the student who will make his future in an urban setting.

The first task of the University is to graduate liberally educated people. It encourages its members to seek mastery over language (their own and one or more foreign tongues); to gain insight into the cultures which these languages express; to experience the values of formal thought; to acquaint themselves with the disciplines which deal with animate and inanimate nature; to be aware of the methods and results of the sciences which investigate man, his institutions, his culture and his physical world; and to comprehend the relation of man's ideals and aspirations to his experience as interpreted by the various disciplines.

Admission

Applications.

Applications for admission may be obtained from the Admissions Office, 100 Arlington Street, Boston 02116. Out-of-state and foreign applicants should return their completed forms *before* February 1, and instate applications should be returned *before* March 1. *No application fee is required.*

Applicants are invited to visit the campus where group meetings for visitors will be held on most Tuesday and Thursday afternoons at 3 p.m. This will be an appropriate time to tour the new campus and ask questions. An applicant should be assured, however, that if he is unable to visit Boston his application will be in no way disadvantaged.

A personal conference may be scheduled if the University deems it necessary or if the candidate or his guidance counselor has a question that cannot readily be resolved otherwise.

Testing Procedure

All applicants must take the Scholastic Aptitude Test given by the College Entrance Examination Board. The University requires three College Board Achievements tests, including English Composition. All College Board Test reports must be sent directly to the Admissions Office, University of Massachusetts, Boston, Massachusetts 02116, from the College Board Testing Center. The applicant himself must notify the Board that he wishes his scores sent to this University. Veterans who have been out of high school for two or more years should take the above College Board Tests again.

Acknowledgement and Notification

In most cases applicants will be notified by letter during April of the action taken on their applications. Applicants who present strong academic records, enthusiastic school recommendations, and satisfactory College Board scores will receive earlier notification. This early notification should reassure the well-qualified applicant regarding college entrance and enable the student who has selected the University as his choice of college to settle his plans. Applicants accepted at an early date, however, are under no pressure to make a final decision in regard to their choice of college before the Candidate's Reply Date. In this way the burden of multiple applications on high school guidance counselors and college admissions officers may be lessened.

Advanced Placement

Students whose scores on Advanced Placement examinations meet standards determined by the University shall be regarded as meeting the equivalent University requirements. The College Entrance Examination Board Advanced Placement examinations or special examinations given by the University will determine advanced placement.

Students who wish to continue the study of a language in which they have had previous training are required to take an appropriate placement test. Placement tests are administered by the University prior to registration for the fall term. Students will be placed at the level of study indicated by the results of the tests; the intermediate level requirement may be met by achieving an adequate score.

Transfers

A limited number of transfers from approved colleges may be admitted. Since applicants for such transfers exceed the number that can be accepted, they are placed on a competitive basis. Ratings will be based upon high school and college records and on the College Board Scholastic Aptitude tests, which are required of all transfers. Any student who has been previously enrolled in a college is considered a transfer and must file a transfer application form. Applicants for transfer should write the Admissions Office for a Transfer Application. At least 45 semester credits taken in residence at the University are required of all transfers who are candidates for a Bachelor Degree.

Tuition, Fees and Expenses

Tuition.

As a state institution the University of Massachusetts at Boston offers a low rate of tuition to all students entering from the Commonwealth. Eligibility for admission under the low residential rate is determined in accordance with the following policy established by the Board of Trustees.

A student must present evidence satisfactory to the Treasurer of the University that his domicile is in the Commonwealth of Massachusetts in order to be considered eligible to register in the University as a resident student. This means that he must have established a "bona fide" residence in the Commonwealth with the intention of continuing to maintain it as such.

The domicile of a minor shall follow that of the parents unless such minor has been emancipated. In case of emancipation, the student, in addition to the requirements of these regulations respecting residence, shall present satisfactory proof respecting emancipation. Minors under guardianship shall be required to present, in addition to the certification of the domicile of the guardian,

satisfactory documentary evidence of the appointment of the guardian. No student shall be considered to have gained residence by reason of his attendance in the University, nor shall a student lose residential preference during his continuous attendance at the University. The residence of a wife shall follow that of the husband. The prescribed form of application for classification as to residence status must be executed by each student. Misrepresentation of facts in order to evade the payment of out-of-state tuition shall be considered sufficient cause for suspension or permanent exclusion from the University. Discretion to adjust individual cases within the spirit of these rules is lodged with the President of the University.

Expenses.

Normally expenses vary from approximately $350 to $450 per year. The following estimate of a year's expenses includes only those items which are strictly college-related. Tuition for residents of Massachusetts is $200 per year and for others $600.

Tuition	$200
Student Activities Fee	30
Health Services Fee	20
Student Medical/Surgical Insurance 12 months coverage optional	33
Books, stationery, laboratory and other supplies (estimate)	100
	$383

There is no provision made for room and board expenses as the University of Massachusetts at Boston is non-residential.

Initial Payment for Freshmen.

The initial payment for first semester expenses required of freshmen and transfer students prior to fall registration, and other expenses reasonably expected, are indicated below:

	Residents of Massachusetts	All others
Tuition	$100	$300
Less: Credit for Matriculation Fee	(15)	(15)
Net Tuition	85	285
Student Activities Fee	15	15
Health Services Fee	10	10
Student Medical/Surgical Insurance 12 months coverage (optional)	33	33
Total of first semester Student Fee Bill	$143	$343
Books, Stationery, Laboratory and other supplies (estimate)	50	50
Total	$193	$393

The figures for books, stationery, etc., are approximate; they vary depending upon courses chosen and individual needs. Students should be prepared to pay cash for books and incidental supplies. Certain departments make special charges for necessary laboratory supplies. A bill will be rendered to the parent of each student prior to the beginning of the semester.

Student Activities Fee.

Used to support programs and activities beneficial to students.

Student Health Fee.

Used to support the University Health Services and its programs.

Medical/Surgical Insurance.

An optional plan providing hospital, medical, and surgical care on a twelve-month basis for injuries or illness during

the school year, holidays and summer vacation. Students who register for the Fall semester have only one opportunity to enter or reject this program each year, at the time of payment of the Fall semester bill. It is also offered on the Spring semester bill for new spring registrants only. Dependents of married students are not covered under this plan. Coverage for dependents is available at additional cost. Inquire at the Student Affairs Office.

Payment Due Dates.

In accordance with University policy all charges for tuition and fees are due and payable approximately 21 days prior to the date of registration of each semester. Bills will be rendered in advance with due date shown and should be returned with the proper payment to the Office of the Treasurer, University of Massachusetts at Boston, 100 Arlington Street, Boston, Massachusetts 02116. Students may not register until all University charges are paid or otherwise accounted for.

Scholarship Payments.

It is the responsibility of all scholarship holders to see that the University is adequately notified prior to the time fee bills are prepared. Known scholarships are shown on the fee bills. If such items are not shown, deductions may not be made from the bill until satisfactory evidence has been presented to the Treasurer of the University by the donor.

Late Payment and Registration.

Any student who does not make payment of his semester charges by the date specified may be required to pay a late payment fee of $5.

Credit by Special Examination.

Students receiving credit by special examination must pay $5 per credit before the examination may be taken. This fee is non-refundable.

Tuition and Fee Refunds.

A student who leaves the University for any reason, except as specified below, before a semester is completed will be granted a pro rata refund of tuition and fees. A student who makes an advance payment and then for any reason does not attend any part of the next semester or term at the University will be given a full refund of tuition and fees. The $15 admission (matriculation) payment required of

new students is not refundable. A student called into military service before completion of a semester will be given a pro rata refund of tuition and fees provided that he receives no academic credit for the work of that semester. If academic credit is given, there will be no refund. A student who is suspended or expelled from the University for disciplinary reasons forfeits all rights to a refund.

Refund Schedule.

Regular Term

a. Within the first two weeks from the beginning of semester or term (Registration Day) 80%
b. During the third week 60%
c. During the fourth week 40%
d. During the fifth week 20%
e. After the fifth week . . . . . no refund

Financial Aid

Financial Aid at the University of Massachusetts at Boston is awarded to those students who cannot provide the full cost of their college education through their own and their families' reasonable efforts. The term "financial aid" is used to include scholarships, grants, long-term loans and part-time employment.

Applications for financial aid should be filed at the same time as the application for admission. The filing of an application for financial aid will have no influence on the decision for admission.

Scholarships.

Commonwealth Scholarships are available for residents of Massachusetts. Only those students in the top 10-25% of their class with above average performance on the College Entrance Examination and a financial need will be considered for scholarships.

Educational Opportunity Grants.

These gift awards are given to academically promising students in accordance with special requirements set by the Higher Education Act of 1965. These grants are designed especially for students of low income families.

Loans.

The major sources for loans are National Defense Student Loan Fund and the Massachusetts Higher Education Assistance Corporation.

a. National Defense Student Loans are available from the University. A student needing money may borrow up to $1000 per year for five years. No interest is charged and repayment is not expected (1) while the student is a full-time student in college or graduate school; (2) for three years if he enters military service or Peace Corps; (3) for nine months after completion of studies. When repayment is expected there is an interest charge of 3% a year. Repayment may be over a 10-year period if necessary. There are provisions for cancelling all or part of this loan if the student enters the teaching profession.

b. H.E.L.P. Federally guaranteed loans are available through local banks. The Massachusetts Higher Education Assistance Corporation underwrites these loans. Conditions and regulations concerning these loans are similar to those of the National Defense Student Loans. Specific questions and applications should be directed to banks which operate under this program.

Part-time employment.

This employment is available mainly through the College Work-Study Program, part of which is supported by the Federal Work-Study Program, and will be given as part of the financial aid package. This will require eight to 15 hours of work per week for students who need financial aid.

Application procedure.

Two separate steps are required to complete an application for financial aid at University of Massachusetts at Boston.

a. The applicant should complete the Financial Aid Application form and return it no later than March 15, or within two weeks if he receives it after March 1.

b. The applicant should obtain from his school's guidance office, a copy of the Parent's Confidential Statement prepared by the College Scholarship Service. The statement should be mailed directly to the Service at the same time the application form is sent to the school. The University of Massachusetts at Boston should be listed under item 13. If the school does not have a copy of the Parent's Confidential Statement, one should be requested from the College Scholarship Service, Box 176, Princeton, New Jersey.

Awards.

The amount of awards is determined by degree of need and may range from $100 to full cost of attending school. A fuller explanation of determination of need is available in the Financial Aid Office.

Announcement of awards will be made by means of an award letter as soon as possible following the applicant's acceptance by the University. Further communication with the Financial Aid Office is unnecessary, as each applicant will receive an answer as soon as a decision has been made.

Health Services

The University maintains Health Services for men and women students. Their purpose is to contribute to the well-being of the entire University community and to minimize the student's loss of time from educational pursuits for reasons of health. Two registered nurses are on duty from 8:30 a.m. to 5:00 p.m., and both clinical and laboratory facilities are offered. Physicians and psychiatrists are available on an appointment basis, and special consultants are arranged when indicated.

The physical examination and medical history of each student is reviewed by a physician before registration. Therefore, the University Health Services is aware of any medical problems which either require continuing medical care or might necessitate a modification of the student's academic or athletic program.

The Health Services are partially supported by the Health Services Trust Fund to which each student pays $10 a semester. Students are urged to enroll in the University of Massachusetts/Boston Blue Cross-Blue Shield Student Plan. This fee entitles the student to extensive but not total hospital services, in-patient physicians' care, out-patient surgical care, accident insurance, etc. Students are covered on and off the campus for the entire year even if the student withdraws from the University. A full description is available at the University Health Services office.

Housing

The University of Massachusetts at Boston is a commuting institution. Living arrangements are the concern and responsibility of the students and their parents.

Office of Student Affairs

The Office of Student Affairs includes, either completely or in cooperation with other offices, the following areas:

- Career planning
- Communication with parents
- Counseling
- Cultural events programs
- Discipline
- Financial aid
- Food services
- Foreign students
- Handicapped students
- Intramural athletics
- Orientation program
- Placement
- Recognized student organizations
- Student activities
- Veterans' affairs

For further details, students are urged to consult the Student Handbook.

Grades

Grades shall be reported according to the following letter system. No other interpretation of this letter system shall be authorized.

A — Excellent
B — Good
C — Fair
D — Conditionally Passing-Unsatisfactory
F — Failure
Inc. — Incomplete

The grade of Incomplete shall be reported only when a portion of the assigned or required class work, or the final examination, has not been completed because of the student's serious illness, extreme personal circumstances, or for scholarly reasons at the request of the instructor. If the student's record is such that he would fail the course regardless of the result of the missing work, he shall fail. A student can obtain credit for an Incomplete only by finishing the work of the course within the first three weeks of the following semester. The grade of Incomplete is converted to a failure if the course requirements have not been satisfied by that time. Exceptions to the three-week deadline may be requested from the appropriate agency in cases of protracted illness, critical personal problems, or for scholarly reasons at the request of the instructor. The initiative for removal of the Incomplete grade rests with the student.

An Incomplete on a final grade report is calculated as an F in arriving at a temporary quality point average. When the Incomplete is later converted to a grade, the permanent record is changed and the student is notified.

Once a grade is submitted, it cannot be changed except on approval of the Division Chairman.

Quality Points

Quality points per semester are assigned to course grades as follows: A, 4; B, 3; C, 2; D, 1; F, O; these points are then multiplied by the number of course credits.

Deficiencies

The student admitted with deficiencies is required to make up his deficiency with no credit before being allowed to register for more than 8 hours of regular college work.

Retention and Good Standing

A student below the grade level required for good standing (i.e., on probation) must do *considerably* better the following semester in order to bring his cumulative average to the necessary level for retention at the University.

Readmitted Students: A readmitted student must attain the cumulative average required by the class to which he has been assigned at the time of readmission.

Transfer Students: The former cumulative average of a transfer does *not* carry over to this University; he begins a new cumulative average upon admission. Therefore, the cumulative average for the first semester necessary for retention and good standing is the same as for a freshman (i.e., 1.0 for retention and 1.5 for good standing). However, for all subsequent semesters at UMB the student must attain the cumulative average necessary for the class to which he was assigned.

Any student whose cumulative average falls between the requirement for retention and the requirement for good standing shall be considered on scholastic probation. No academic dismissal is charged.

While on scholastic probation students shall not be eligible to hold office in any recognized student organization, to represent the University in any sense on or off campus, or to participate in any non-academic extracurricular activities (including athletic, dramatic, musical and publication activities).

The Committee on Standards and Scholarships shall be charged with modifying, extending, or limiting the restrictions on a student during a period of scholastic probation and determining the limit of its duration, and shall report all such modifications to the Faculty Senate.

Any student whose semester average is below the cumulative average required for retention shall be warned by a statement on the bottom of both his copy and his parents' copy of the grade report. This warning is to indicate that continued below-standard performance will result in failure to graduate or academic dismissal.

A failed course in a subject required for the degree must be repeated. If the failed course is not required, a substitution may be made upon the approval of the Division Chairman. Although repeated, the original failed course continues as part of the student's quality point and course record.

A course once passed may not be repeated for a higher grade.

CUMULATIVE INDEX REQUIRED FOR RETENTION AND GOOD STANDING

Semester	Credits	Cumulative Average Retention	Cumulative Average Good Standing
1	16	1.0	1.5
2	32	1.2	1.6
3	48	1.3	1.65
4	64	1.5	1.7
5	79	1.6	1.75
6	94	1.8	1.8
7	109	1.9	1.9
8	124	2.0	2.0

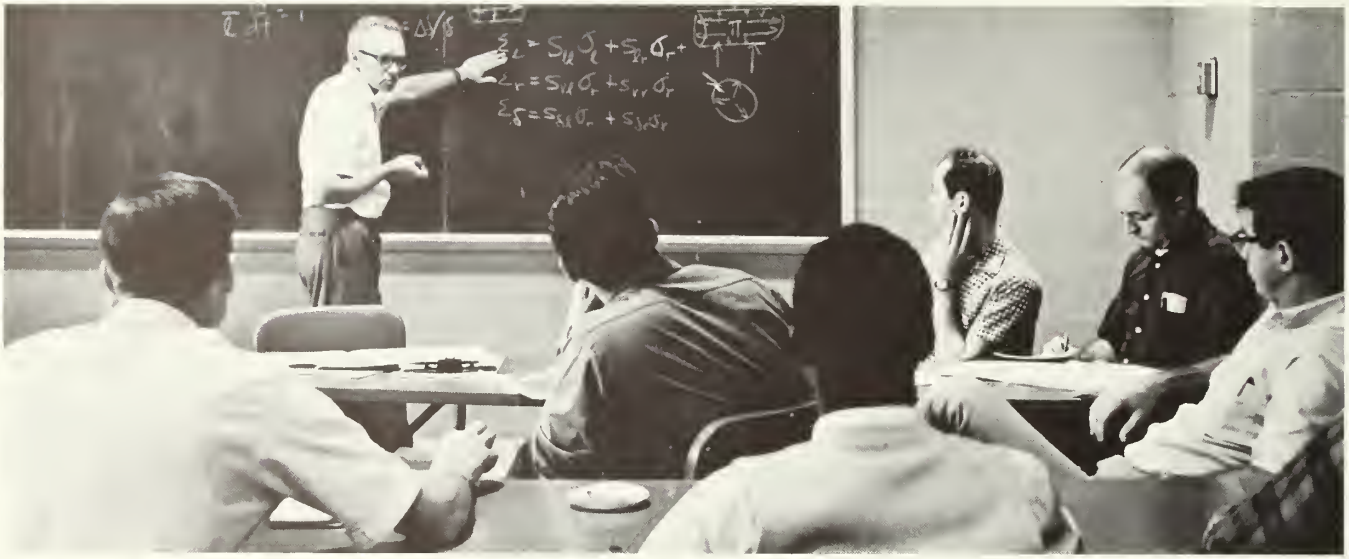
Course Changes — First Ten Academic Days

1. Add Period — The student is allowed ten academic days from the beginning of the semester to add, drop, or substitute a course without notation on his record.
2. Add/Drop Procedure — If a student has good reason to drop a course and add another, he may accomplish this in the following order:
   a. Secure a Change of Course card from the Registrar's Office.
   b. Have the instructor of the course to be added certify that space is available in the desired section.
   c. Secure release from instructor of course to be dropped (the instructor should also give the student the Course Admission Permit for the course to be dropped).
   d. Change the Course Admission Permit to reflect the new course and present it to the new instructor who will add it to his section packet.
   e. Submit the completed Change of Course card to the Registrar's Office.
3. Withdrawal — If the student simply wishes to withdraw from a course (within the first ten days) he may do so with his instructor's approval.

Withdrawal procedure — Obtain a Change of Course card from the Registrar's Office. Obtain the necessary signatures. Secure the Course Admission permit from the instructor and submit it with the Change of Course card to the Registrar's Office.

Course Changes — Withdrawal After 10th Academic Day

1. Withdrawal Period — Within the period of the 11th academic day and up to and including 28 academic days from the beginning of a semester, a student may drop a course subject to minimum load regulations (12 credit hours for matricular student). The notation of withdrawal on the student's record will be the grade of W which is not computed in the grade point average.
2. Withdrawal Procedure — (11th to 28th academic day) To be properly withdrawn from a course the student must accomplish the following:
   a. Secure a Change of Course card from the Registrar's Office.
   b. Schedule a conference with the instructor of the course involved and his adviser.
   c. Secure recommendations (either positive or negative) from the instructor and the adviser. They should indicate their recommendations on the card next to their signature. A negative recommendation from either the instructor or the adviser will negate the withdrawal.
3. WF Period — After the 28th academic day a student may not drop a course without having a WF entered on his record. The grade of WF is computed in the cumulative average (0.0 quality points).



4. Awarding of WP — The grade of WP (which is not computed in the cumulative average) is normally awarded only to students who withdraw completely from the University. In cases where extenuating circumstances are present, a WP may be awarded with concurrence of the instructor and the Division involved. If a WF is not to be recorded, the instructor should sign the statement on the back of the card and the Division Chairman must approve the WP by signing as Academic Dean. The instructor may wish to note this action by entering a WP in his rank book.

Withdrawal from the University

1. If a student withdraws prior to the announced date for submission of mid-semester grades, no grade will be recorded on his permanent record file. The courses in which he was enrolled will be recorded along with his withdrawal date.

   After that date, a WF or WP will be recorded, as appropriate, for the student's standing in each course at the date of his withdrawal.

   The effective date of withdrawal is that on which all proper forms are completed, signed, and returned to the Registrar.

2. Withdrawal Procedure — To withdraw from the University the student must do the following:

   a. Secure withdrawal papers from the Registrar's Office.

   b. Consult with a member of the Advising Office staff who must sign the withdrawal papers initially.

   c. Receive clearance from all departments of the University where he may have accrued charges, i.e., Library, Laboratories, Health Service, Treasurer's Office. This will clear the student's records so that he may get appropriate refunds and/or transcripts.

      Note: If the student withdraws after the date of mid-semester grades he must also get a passing or failing grade from his instructors.

   d. Return all forms together with identification card to the Registrar for final approval.

3. If any charges are outstanding, the student's permanent records will be "frozen" and no transcripts can be issued. Withdrawal papers which are not completed will result in the recording of the grade of F in all courses at the conclusion of the semester.

Summer Courses Outside the University

In order to receive credit for summer course work outside the University a student must receive prior authorization from the department concerned for each course to be taken. A Course Authorization form can be obtained from the Registrar's Office; the original to be returned to the Registrar, one copy to be retained by the Department, and one copy to be retained by the student. In general, a grade of B or higher is required for transfer credit in courses which normally could be taken during the regular school year. Permission to accept a grade lower than B can be obtained only from the Department to which the credit is being transferred. It is the student's responsibility to see that a transcript is sent to the Registrar upon completion of the program.

Final Examinations

When the examination schedule is published, any student who finds himself scheduled for two examinations at the same time is to report this situation directly to the Registrar.

Attendance

The attendance regulations place the responsibility for class attendance upon the individual student. *He is expected to attend classes regularly and punctually.* The members of the student body are considered sufficiently mature to accept this personal responsibility, and to recognize and accept the consequences of failure to attend. Since freshmen must exercise particular care in this respect and since the faculty recognizes its greater responsibility toward them in the matter of class attendance, it is expected that freshmen, especially, will attend all their classes. The attendance of freshmen and students on probation is subject to special review by the Dean.

Members of the faculty will hold these students responsible for regular attendance at classes. After the second week of the semester, if a student has been absent in any course for twice the number of weekly class hours, the instructor is required to report such absences to the Dean.

All absences due to illness must be reported on forms available in the Office of the University Physician. Illness is considered an excuse for absence only if a student's statement is filed immediately upon his return.

Any student in good standing absent for more than twenty-five consecutive class days, for health or any other reason, will generally be required to withdraw from all courses that semester.

Advising

All freshmen will be advised by members of the Board of Advisers; upperclassmen will be advised by faculty members in their major departments. Students who are undecided on a major should consult with a member of the Advising Office staff.

Students' academic folders will be kept in the Advising Office, along with information on requirements, courses and other information pertinent to advising, all of which will be available to faculty members.

The staff of the Advising Office is available to students for general counseling on matters pertaining to their academic work.

For pre-medical and pre-dental counseling, see page 36.

Tutorial Program

The tutorial program provides students with additional skills in critical areas so they may perform at an increasingly higher level. Therefore, two kinds of tutorials are offered: those concentrating on the mechanics of a subject area and those concentrating on the course materials themselves.

Students or faculty should contact the Advising Office for further information on both types of programs.

Change of Major

Any student who has stated a major and wishes to change it should consult first with a member of the Advising Office staff. Upon approval of the change, the departments involved and the Registrar's Office will be notified, and the student will be assigned a new adviser by the new department.

Conduct

The customary high standard of college men and women in honor, self-respect, and consideration for the rights of others constitutes the ideal student conduct. The privileges of the University will be withdrawn from a student at any time if such action is deemed advisable. It should be under-

stood that the University, acting through its President or any administrative officer designated by him, distinctly reserves the right not only to suspend or dismiss students but also to name conditions under which they may remain in the institution. Hazing in the sense of the punishment or humiliation of students is not permitted. The University of Massachusetts at Boston does not authorize or recognize any social fraternities or sororities.

Course Load

The normal course load for Freshmen and Sophomores is four courses for 16 credit hours and for Juniors and Seniors, five courses for 15 credit hours. A student with a cumulative grade average of 3.0, or 3.5 in the previous semester, may take an extra course with the permission of his adviser.

A student majoring in a Science who must take laboratory courses of more than 4 credits may assume a load of 18 credits. This is intended especially for Juniors and Seniors who may find it necessary to take three 3-credit courses, a required 4-credit core curriculum course, and a 5-credit laboratory course (or a similar variation) in one semester.

Graduation Requirements

In order to graduate, a student must acquire a total of 124 credits to include:

1. Freshman-Sophomore core curriculum requirements
2. requirements for a major field, and
3. the upperclass distribution requirements.

Note: Students who qualify for advanced placement in languages or other 4-credit Freshman-Sophomore courses may graduate with as few as 120 credits.

Basic Core Requirements for Graduation

a. Two semesters of Freshman English; not postponable by anyone.

b. Two semesters of Freshman History. This may be postponed to the Sophomore year by Mathematics and Natural Science majors who are taking a foreign language in their Freshman year.

c. Four semesters of Natural Sciences or Mathematics, not more or less than two in the same department. Two semesters of this requirement may be postponed to the Junior year by Mathematics, Humanities and Social Science majors.

d. Four semesters of one language (or proficiency at the intermediate level). Beginning language courses may be postponed to the Sophomore year by majors in Mathematics and Natural Sciences. In any case all four semesters must be taken *consecutively*. Students majoring in the Humanities or Social Sciences are required to take the equivalent of *six* semesters of one language (one full year beyond the intermediate level).

e. Two semesters of Sophomore English or one semester of Sophomore English plus a Humanities option which allows the student, with the permission of the Humanities Division, to substitute for English 112 a semester course in one of the following: Art, Music, Philosophy, or Modern European Literature in Translation. The Humanities option may be postponed to the Junior year by Mathematics and Natural Science majors.

f. Two semesters of introductory (Sophomore) Social Sciences. This may be postponed to the Junior year by Mathematics and Natural Science majors.

Thus, the usual Freshman program is:

English
Foreign language
History
Science or Mathematics
(except for postponements allowed to Mathematics and Natural Science majors)

The usual Sophomore program is:

English
Foreign language
Introductory Social Science (not History)
Science or Mathematics
(except for postponements allowed as outlined above)

Upperclass Distribution Requirements

In addition to the core requirements and the requirements of their major department, students must fulfill a distribution requirement amounting to four semesters of work. These four semesters do not have to be in different departments provided all the conditions listed below are fulfilled:

1. All four semesters must be outside the major *department*.
2. Two must be outside the *division* in which the major falls.
3. Two must be *beyond* the introductory level.
4. One must be in *Humanities* and not used to fulfill basic core requirements. *Third-year language courses* (required of Social Science and Humanities majors) may be used towards satisfying this requirement.

COURSES AND MAJOR REQUIREMENTS

DIVISION OF HUMANITIES

Alfred R. Ferguson,
Chairman of the Division

Art

Renee Arb, Ph.D., *Assistant Professor of Art*
Andrew Ramage, M.A.,
Part-time Lecturer in Art
Harold Thurman, M.A.,
Part-time Lecturer in Art
Steven Trefonides, B.A.,
Part-time Lecturer in Art

Graduation Requirements

Majors in Art History are required to take Art 111 and 112, Art 232-33, and a minimum of 8 semester courses from the following Groups A, B and C:

Group A (surveys of the art of various countries and regions in the principal historical eras): 2 semesters from the eras Ancient, Medieval, Renaissance and Baroque; 1 semester from Modern.

Group B (problems in drawing, graphic art, sculpture, architecture) and Group C (exploration of a given style, period, master, or iconographical problem, or a comparative study of a "theme" which extends through more than 1 historical period): at least 5 courses, of which at least 1 is from Group B.

A Senior Honors Thesis may be substituted for one or two of the advanced courses by students with a cumulative average of B or higher.

Course Offerings

Art 111 (I)
Introduction to the Language of Art
The nature of form and content, technique, and style in painting, sculpture, architecture, and graphic arts. Designed to sharpen the student's response to original works. Meetings in the local museums alternated with lectures on key problems and masterpieces of art history. Selected readings and short papers required.
3 hours, 4 credits Staff

Art 112 (II)
Introduction to the History of Art
A survey of the major periods, national and individual styles in painting, sculpture, and architecture from antiquity to the 20th Century. Detailed study of outstanding representative works considered in social and historical setting alternated with analysis of original material in the local museums. Selected readings and short papers required.
3 hours, 3 credits
Prerequisite: Art 111 or permission of instructor Staff

Art 221 (I)
Art of the Italian Renaissance, 1400-1520
Classical antiquity as an ideal in a Christian society. Aesthetic idealism versus political realism. Concentrates on major creative achievements in painting, sculpture, and architecture and on the new role of artists and their patrons, with some attempt to contrast the Mediterranean and Nordic spirit by comparisons with contemporary German art.
3 hours, 3 credits
Prerequisite: Art 111 or 112 or permission of instructor Miss Arb

Art 222 (II)
Mannerism in the Visual Arts, 1520-1600
An exploration of the new style developed in Italy in reaction to Raphael's classicism which spread to Northern Europe between the High Renaissance and the Baroque. Form, theory and content in relation to the social crises of the Reformation and Counter-Reformation. Relationship of the "psychology" of Mannerism to the Modern Age.
3 hours, 3 credits
Prerequisite: Art 111 or 112 or permission of instructor Miss Arb

Art 227 (I) The Art of Africa
An introduction to the African arts (especially carved figures, masks, rock and wall paintings, textiles and ritual objects) studied in relation to the ethnic background as well as aesthetic expression. Art historical problems within the continent and the impact of African forms on other cultures of the 19th and 20th Centuries.
3 hours, 3 credits
Prerequisite: Permission of instructor Staff

Art 231 (I), 232 (II)
Basic Drawing and Design
An introduction to basic materials and techniques. Drawing: as descriptive and interpretive, and as a basic discipline of seeing and understanding. Design: the use of line, shape, color, texture, volume, materials to give the student an understanding of problems fundamental to creative effort in the visual arts.
3 hours, 3 credits
Prerequisite: Art 111 or 112 or permission of instructor Mr. Thurman

Art 236 (II) Beginning Painting
Color theory; collage problems in color; problems in watercolor and pastel; combinations with various media, i.e., pen and ink plus water-color, gouache opaque tempera painting, color woodcut. Oil painting, still life, imaginative subjects.
6 hours, 3 credits
Prerequisite: Art 233 Mr. Trefonides

Art 241 (I) The Art of Greece and Rome
A general survey of the art of the classical world with emphasis on a limited number of monuments.
3 hours, 3 credits
Prerequisite: Art 111 or 112 or permission of instructor Mr. Ramage

Art 242 (II) Classical Painting
The style and technique of Greek vase painting, wall painting, and easel painting with considerable emphasis on literary tradition.
3 hours, 3 credits
Prerequisite: Art 241 or permission of instructor Mr. Ramage

Art 247 (I) Origins and Development of Western Architecture
Evolution of architecture from its beginnings in Mesopotamia, Egypt and Greece through its development in the Renaissance and Baroque periods, with special attention to the relation of man and environment, the articulation of space, and the theory of architectural design.
3 hours, 3 credits
Prerequisite: Art 111 or 112 or permission of instructor Staff

Art 248 (II) Modern Architecture
Problems in the theory of architectural design during the Romantic Classicism era and the evolution of new potentialities in the 19th Century, with emphasis on the role of technology, new structural solutions, methods of construction, and the development of new conceptions of space for contemporary buildings.
3 hours, 3 credits
Prerequisite: Art 111 or 112 or permission of instructor Staff

Art 261 (I) Advanced Drawing
Advanced life drawing; advanced perspective; problems in making drawings with compositions containing several figures (realistic, abstract, imaginative); imaginary landscape, dream-like mood; experiment with monochromatic wash, tempera, pen and ink; advanced still life drawing; woodcut.
6 hours, 3 credits
Prerequisite: Art 231 or 232, or permission of instructor Mr. Trefonides

Art 291 (I) 19th Century Art
A broad survey of the visual arts stressing the vigorous counterpoint of aesthetic and social forces during a century of dynamic change with emphasis on European painting.
3 hours, 3 credits
Prerequisite: Art 111 or 112 or permission of instructor Staff

Art 292 (II) 20th Century Art
An introduction to the multiple innovations of modern art in theory, materials, techniques, and to major European masters including Picasso, Matisse, Beckman, Klee, Moore, Giacometti, and contemporary Americans including deKooning, Gatch, Bloom. Selected readings, short papers, museum research, and field trips.
3 hours, 3 credits
Prerequisite: Art 111 or 112 or permission of instructor Miss Arb

Classics

Renata Poggioli, Ph.D.,
Assistant Professor of Classics
Rosemary Barton, M.A.,
Instructor in Classics
Clive Foss, M.A.,
Instructor in History and Classics
Blaise Nagy, M.A.,
Part-time Lecturer in Classics
Gerald Sullivan, M.A.,
Part-time Lecturer in Classics

Graduation Requirements

Classics majors are required to take a minimum of 24 credits in Junior-Senior level courses (Literature, Composition, Classics 261-62). Latin concentrators are also required to take at least 1 year of the Greek language.

At the end of Senior year, students majoring in Classics will take a General Examination, both oral and written, covering the field of Greek and Latin Literature. A student who has earned a cumulative average of B or higher by the beginning of his Senior year may choose to write an Honors Thesis on a subject approved by the instructor. The Honors Thesis will count 6 credits toward fulfillment of requirements.

Course Offerings

Latin 111 (I), 112 (II) Elementary Latin
For students who have no creditable training in Latin. Intensive practice in language skills with introductory readings.
3 hours, 4 credits Staff

Latin 121 (I), 122 (II) Intermediate Latin
Review of reading skills. Selective readings in Latin literature.
3 hours, 4 credits
Prerequisite: Latin 112 or equivalent Staff

Latin 221 (I), 222 (II) Latin Literature
Intensive readings of masterpieces of Latin literature, including epic poetry (Virgil), Catullus, and the Elegiacs.
3 hours, 3 credits
Prerequisite: Latin 122 or equivalent Staff

Latin 223 (I), 224 (II) Latin Literature
Intensive study of Ovid's *Metamorphosis* and Tacitus' *Annals.*
3 hours, 3 credits
Prerequisite: Latin 222 or equivalent Staff

Latin 225 (I), 226 (II) Latin Literature
Intensive study of Lucretius' *De Rerum Natura,* Cicero's *The Philosophical Work.* (To be offered 1969-70.)
3 hours, 3 credits
Prerequisite: Latin 222 or equivalent Staff

Latin 227 (I), 228 (II) Latin Literature
Horace's *Odes and Satires,* and readings in the Roman Theatre, including works by Plautus, Terence, and Seneca. (To be offered 1970-71.)
3 hours, 3 credits
Prerequisite: Latin 222 or equivalent Staff

Latin 241 (I), 242 (II) Latin Composition
Composition; review of Latin syntax and structure; translation from English and original compositions.
3 hours, 3 credits
Prerequisite: Latin 122 or equivalent Staff

Greek 111 (I), 112 (II) Elementary Greek
Fundamentals of the Greek language.
3 hours, 4 credits
Prerequisite: Latin 122 or equivalent Staff

Greek 121 (I), 122 (II) Intermediate Greek
Grammar, syntax, and reading.
3 hours, 4 credits
Prerequisite: Greek 112 or equivalent Staff

Classics 331 (I), 332 (II)
Greek and Roman Civilizations
A survey of the literature, philosophy and art of Greece and Rome in their historical setting. All readings in English.
3 hours, 3 credits Mrs. Poggioli

English

Irvin Stock, Ph.D.,
Professor of English and Chairman of the Department
Mary D. Curran, Ph.D.,
Professor of English
Alvan S. Ryan, Ph.D.,
Professor of English
Max Bluestone, Ph.D.,
Associate Professor of English
James H. Broderick, Ph.D.,
Associate Professor of English
Seymour Katz, Ph.D.,
Associate Professor of English
John Marvin, M.A.,
Associate Professor of English
Frederick Willey, Ph.D.,
Associate Professor of English
Mary Lee Allen, Ph.D.,
Assistant Professor of English
Adrianne Baytop, Ph.D.,
Assistant Professor of English
Joel Blair, Ph.D.,
Assistant Professor of English
Charles A. Campbell, Ph.D.,
Assistant Professor of English
Marjorie Collins, Ph.D.,
Assistant Professor of English
Robert R. Evans, Ph.D.,
Assistant Professor of English
James Leland Grove, Ph.D.,
Assistant Professor of English
U. Grant Keener, Ph.D.,
Assistant Professor of English
Charles Knight, Ph.D.,
Assistant Professor of English
Richard McCleary, Ph.D.,
Assistant Professor of English
Duncan Nelson, Ph.D.,
Assistant Professor of English
Robert Risse, Ph.D.,
Assistant Professor of English
Louis E. Roberts, Ph.D.,
Assistant Professor of English
Ronald P. Schreiber, Ph.D.,
Assistant Professor of English
Ralph D. Sturm, Ph.D.,
Assistant Professor of English
James G. Sweeney, Ph.D.,
Assistant Professor of English
Nina Adolph, M.A., *Instructor in English*
Charles Bowen, M.A., *Instructor in English*
Martha Finney, M.A., *Instructor in English*
Shaun O'Connell, M.A., *Instructor in English*
Theodore Richer, M.F.A.,
Instructor in English
Dorothy Shukri, A.G.S.M.,
Instructor in English
George Slover, M.F.A., *Instructor in English*
Cornelia Veenendaal, M.A.,
Instructor in English
Mary Anne Ferguson, Ph.D.,
Lecturer in English
Ruth Newman, M.A.,
Visiting Lecturer in English
Anita Anger, M.A.,
Part-time Lecturer in English
Christopher Chase, M.A.,
Part-time Lecturer in English
Roberta Hendrickson, M.A.,
Part-time Lecturer in English
Linda Hunt, M.A.,
Part-time Lecturer in English
Muriel Phillips, S.T.M.,
Part-time Lecturer in English

Graduation Requirements

The English major must have at least 24 credits in English beyond the Sophomore level. Of the minimum 8 English courses, 2 must be introductory genre courses (Group I), and 1 must be in poetry; 2 must be period courses (Group II); and 1 must be a Senior seminar (Group V). The courses should be taken in the following sequence: at least 1 genre course before any period course, and at least 1 period course before the Senior seminar. The student will complete his courses from Groups I, II, III (Major Authors and General Topics), or IV (Writing). At least 3 courses must deal mainly with literature written before 1800. No more than 2 writing courses may be counted toward the English major.

Course Offerings

English 101 (I)
Great Books and Composition
A Homeric epic, selections from the Bible, and classical drama. Additional material from other periods to be added by instructor. Emphasis also on principles of effective writing. At least 8 papers required.
3 hours, 4 credits Staff

English 102 (II)
Great Books and Composition
Readings in medieval, Renaissance, and 18th Century literature. Writers include Dante and Shakespeare; selections of Renaissance and 18th Century poetry, and a work of prose fiction of the 18th Century or earlier. Continues the study and practice of effective writing. At least 7 papers required.
3 hours, 4 credits
Prerequisite: English 101 Staff

English 111 (I, II)
Great Books and Composition
An introduction to 19th Century English, American and continental literature. Readings from the major poets and prose writers of the period, including Wordsworth, Whitman, Dostoevsky, Hawthorne, and Chekov. Papers required.
3 hours, 4 credits
Prerequisite: English 102 Staff

English 112 (II)
Great Books and Composition
An introduction to English, American and continental literature of the 20th Century.

Readings from the major poets and prose writers of the period, including Yeats, Eliot, Frost, Joyce, Faulkner, Mann, Brecht, and O'Neil. Papers required.
3 hours, 4 credits
Prerequisite: English 111 Staff

GROUP I (GENRE COURSES)

English 211 (I, II) English Poetry to 1700

Examines the ballad, the lyric, the sonnet, the pastoral, the epic, the meditative poem, and narrative verse.
3 hours, 3 credits
Prerequisite: English 111 Staff

English 212 (I, II)
English and American Poetry since 1700

Examines the ballad, the lyric, the sonnet, the pastoral, the dramatic monologue, and narrative verse.
3 hours, 3 credits
Prerequisite: English 111 Staff

English 215 (I, II) English Prose Fiction

Definition of the narrative methods and subjects that lead to the classification of fiction under the headings of romance, realistic novel, confession, tale.
3 hours, 3 credits
Prerequisite: English 111 Staff

English 216 (I, II) American Prose Fiction

Definition of the narrative methods and subjects that lead to the classification of fiction under the headings of romance, realistic novel, confession, tale.
3 hours, 3 credits
Prerequisite: English 111 Staff

English 219 (I, II) English Drama to 1700

Consideration of distinctions between tragedy, comedy, and tragi-comedy, and definition of such special types as the chronicle play, the domestic drama, the masque, the miracle play, and farce.
3 hours, 3 credits
Prerequisite: English 111 Staff

English 220 (I, II)
English and American Drama since 1700

Consideration of distinctions between tragedy, comedy, and tragi-comedy, and definition of special types of plays including the romantic, the heroic, the realistic, the naturalistic, the expressionistic, and the absurdist.
3 hours, 3 credits
Prerequisite: English 111 Staff

GROUP II (PERIOD COURSES)

English 275 (I, II) The Medieval Period

The concerns and techniques of Old and Middle English writers including the *Beowulf* and *Gawain* poets, the Wakefield dramatist, Gower, Langland, Chaucer, and Malory.
3 hours, 3 credits
Prerequisite: One genre course; for non-major or transfer students who have not taken a genre course, permission of instructor Mrs. Ferguson

English 277 (I, II) The Renaissance

Contrasting traditions and predominant currents of thought as a basis for reading More, Elyot, Hoby, Lyly, Marlowe, and Jonson, the sonnets of Sidney, Wyatt, Surrey, and Shakespeare. Supplementary readings from Renaissance criticism.
3 hours, 3 credits Mr. Schreiber
Prerequisite: Same as for English 275

English 281 (I, II) The Neo-Classical Period

The chief intellectual and social currents of the Restoration and 18th Century. Emphasis on the development of capitalism, the Christian Humanist Tradition, and the growth of science and empirical philosophy as reflected in Dryden, Swift, Pope, Defoe, Fielding, Johnson, and Burke.
3 hours, 3 credits Mr. Blair
Prerequisite: Same as for English 275

English 283 (I, II) The Romantic Period

The literature and leading ideas of English Romanticism, with special emphasis on the poetry and prose of Blake, Wordsworth, Coleridge, Byron, Keats, and Shelley.
3 hours, 3 credits Mr. Ryan
Prerequisite: Same as for English 275

English 285 (I, II) The Victorian Age

Readings in Carlyle, Tennyson, Dickens, Browning, Newman, Arnold, Hopkins, and Pater, whose work will be studied in the context of the literary, intellectual, and social history of the Victorian age.
3 hours, 3 credits Mr. Broderick
Prerequisite: Same as for English 275

English 287 (I, II) American Romanticism

The growing importance of symbol and ideal in the period from 1836-1855. Emphasis on romantic imagination in Poe, Emerson, Thoreau, Hawthorne, and Melville, with readings in the Cambridge school and the minor Transcendentalists.
3 hours, 3 credits Staff
Prerequisite: Same as for English 275

English 289 (I, II) American Realism

The emergence of the realistic temper in the poetry of Whitman, and its development through Twain, James, and Howells into the naturalism of Norris, Crane, and Dreiser. (Not to be offered Fall 1968.)
3 hours, 3 credits
Prerequisite: Same as for English 275

English 291 (I, II) The Modern Period

The modern period, including the works of T. S. Eliot, Hemingway, D. H. Lawrence, Joyce, Faulkner, Auden, Dylan Thomas, Lowell, and other contemporary poets.
3 hours, 3 credits
Prerequisite: Same as for English 275
Mrs. Curran, Mr. Keener

GROUP III (MAJOR AUTHORS AND GENERAL TOPICS)

English 304 (II) Medieval Poetry

English poetry from 700 to 1500.
3 hours, 3 credits
Prerequisite: English 111 Staff

English 305 (I) Chaucer

The Canterbury Tales and selected minor works.
3 hours, 3 credits
Prerequisite: English 111 Mr. Risse

English 312 (II) Renaissance Poetry

The poetry of Spenser, Sidney, Shakespeare, Marlowe, and others.
3 hours, 3 credits
Prerequisite: English 111 Staff

English 313 (I)
Shakespeare's Plays: A Survey
The comedies, early histories, and early tragedies of Shakespeare.
3 hours, 3 credits
Prerequisite: English 111
Miss Baytop, Mr. Bluestone

English 314 (II)
Shakespeare's Plays: A Survey
Continuation of English 313: the later histories, problem plays, major tragedies, and late romances.
3 hours, 3 credits
Prerequisite: English 111
Miss Baytop, Mr. Bluestone

English 319 (I)
Elizabethan and Stuart Drama
The major plays of the period, with emphasis on relations between dramatic form and theatre conventions and conditions. Special attention to Marlowe, Jonson, Webster, Middleton, and Ford.
3 hours, 3 credits
Prerequisite: English 111 Mr. Sweeney

English 322 (I)
English Poetry of the Early 17th Century
Divergent traditions in 17th Century poetry, with emphasis on the "schools" of Donne and Jonson. Poets include Donne, Herbert, Vaughan, Marvell, Jonson, Merrick, Waller, and Carew. Not offered Fall 1968.
3 hours, 3 credits
Prerequisite: English 111 Staff

English 325 (II) 17th Century Prose
The development of 17th Century prose in light of intellectual and aesthetic preoccupations of the period. Authors include Bacon, Donne, Browne, Hobbes, Milton, and Dryden.
3 hours, 3 credits
Prerequisite: English 111 Staff

English 326 (I) Milton
The major poetry and prose of John Milton.
3 hours, 3 credits
Prerequisite: English 111 Mr. Ferguson

English 337 (II) 18th Century Fiction
The historical emergence of the novel and aesthetic characteristics of the form in the works of early masters Richardson, Fielding, Smollett, Sterne, and Austen.
3 hours, 3 credits
Prerequisite: English 111 Staff

English 342 (II) Victorian Poetry
Works by Tennyson, Browning, Arnold, Hopkins, Hardy, and others.
3 hours, 3 credits
Prerequisite: English 111 Staff

English 347 (II)
Nineteenth-Century English Prose Fiction
Major English novelists of the 19th Century including the Brontes, George Eliot, Dickens, Thackeray, Meredith, and Hardy.
3 hours, 3 credits
Prerequisite: English 111 Staff

English 352 (II) Modern American Poetry
Major trends and figures in 20th Century American poetry, from the Imagist movement and founding of *Poetry* in 1912 to the present. Emphasis on Frost, Eliot, Pound, Williams, Stevens, Cummings, Lowell, Roethke, Wilbur, and Dickey.
3 hours, 3 credits
Prerequisite: English 111 Staff

English 357 (II) Modern American Fiction
Major American novelists from about 1890 to the present. The art of Crane, Dreiser, Wharton, Dos Passos, Hemingway, Fitzgerald, Faulkner, and West, including recurrent social and cultural themes in their work.
3 hours, 3 credits
Prerequisite: English 111 Staff

English 358 (II)
Black Literature in America
Examination of the historical and social context from which American Negro writing emerged, and of works by authors including Johnson, Hughes, Wright, Ellison, Baldwin, Brooks, Tolson, and Jones.
3 hours, 3 credits
Prerequisite: English 111 Mr. Thelwell

English 359 (II) Modern Drama
Development of naturalism, impressionism, and the tradition of the New Theatre in 19th and 20th Century drama. Continental English and American plays.
3 hours, 3 credits
Prerequisite: English 111 Mr. Roberts

English 361 (I) Irish Literature
Leading figures of the Irish Renaissance, with special emphasis on Joyce, Yeats, Synge, and O'Casey.
3 hours, 3 credits
Prerequisite: English 111 Mrs. Curran

English 374 (II) Principles and Methods of Literary Criticism
Principal methods of literary criticism (formalistic, historical, sociological, archetypal, mythic, and psychological) in relation to several works of literature.
3 hours, 3 credits
Prerequisite: English 111 Mr. Sturm

English 375 (I) History of the Language
Development of the English language from its beginnings to the present; selected passages of British and American writing and speech. Concepts and techniques of descriptive linguistics.
3 hours, 3 credits
Prerequisite: English 111 or
permission of instructor Mrs. Ferguson

English 376 (II) History of Prose Style
Characteristics of literary and oral English prose styles from Middle English to the present.
3 hours, 3 credits
Prerequisite: English 375 or
permission of instructor Mrs. Collins

GROUP IV (WRITING)
English 250 (I) Creative Writing
Examination of techniques and forms of fiction and poetry. Classroom discussion of student manuscripts and frequent conferences.
3 hours, 3 credits Mr. Marvin, Mr. Richer
Prerequisite: Permission of instructor

English 251 (II) Creative Writing
A continuation of English 250.
3 hours, 3 credits Mr. Marvin, Mr. Richer
Prerequisite: Permission of instructor

English 252 (I) Advanced Composition
Techniques of effective expository writing.
3 hours, 3 credits
Prerequisite: English 111 Mr. O'Connell

English 253 (I) Creative Writing Workshop
The structuring of chapters of a short novel, the thematic relationship in a series of stories or poems, and development of style and point of view.
3 hours, 3 credits
Prerequisite: Senior standing and permission of instructor Mr. Marvin

GROUP V (SENIOR SEMINARS)
English 390 (I), 391 (II) Senior Seminars
In depth study of a special topic from the field of British, American or European literature. Classes limited to 15.
3 hours, 3 credits
Prerequisite: Senior standing, 1 genre course, 1 period course and permission of instructor Staff

ENGLISH COURSE FOR TEACHER CERTIFICATION
English 386 (I, II)
Teaching of Secondary School English
A study of the issues and principles of the learning and teaching of secondary school composition, literature, and language. Supervision and critique of practice teaching in the schools.
3 hours; 20 hours laboratory (practice teaching), 6 credits
Prerequisite; 6 hours Education courses Mr. Campbell, Miss Leondar

French

John MacCombie, Ph.D.,
Assistant Professor of French and Acting Chairman of the Department
Michel Philip, Agrégé ès lettres,
Associate Professor of French
Rose Abendstern, Ph.D.,
Assistant Professor of French
Frederick Busi, Ph.D.,
Assistant Professor of French
Mary L. E. Kimball, D.E.U.,
Assistant Professor of French
Jean-Claude Lebensztejn, Agrégé ès lettres,
Lettres Classiques,
Assistant Professor of French
Betty T. McIlvain, Ph.D.,
Assistant Professor of French
Gerald Volpe, Ph.D., *Assistant Professor of French and Italian*
Josette Betkoune, D.E.S.,
Sciences Economiques,
Instructor in French
Livia Calice, B.A., *Instructor in French*
Jacqueline F. deSuze, D.E.S.,
de Français, Instructor in French
Claudine Hunting, D.E.S.,
d'Anglais, Instructor in French
Marilyn Sorenson, *Licence de Concert,*
Instructor in French
Monique Stern, M.A., *Instructor in French*
Claire Suraqui, D.E.S.,
d'Anglais, Instructor in French
Christian Taconet, M.A.,
Instructor in French
Lilian Willens, M.A., *Instructor in French*
Alan Berger, M.A.,
Part-time Lecturer in French
Pierre-Yves Bouquet, *Diplôme de l'Ecole Nationale, Part-time Lecturer in French*
David Buskey, B.A.,
Part-time Lecturer in French
M. Lionel Juran, B.A.,
Part-time Lecturer in French

Graduation Requirements

French majors must take a minimum of 30 credits in Junior-Senior level courses in French. All majors are required to take French 241-42, and are urged to elect it in the Sophomore year.

It is strongly recommended that majors elect 2 years of course work in a second foreign language.

Honors Thesis: a student may receive 6 credits toward his total 30 major credits for acceptable work on an Honors Thesis written in French under the direction of an adviser from the French faculty.

At the end of the Senior year, majors must take a comprehensive exam in French, covering 3 specific fields of French literature (the 3 fields to be chosen at the option of the student), but will be expected to have some knowledge of the course and direction of French literature in general. At the beginning of the Junior year, a reading list will be supplied to the student as a guide for the exam. The exam will total 1 hour oral and 4 hours written.

Students should take the ETS (Educational Testing Service) language proficiency exams in the spring of their Senior year.

Course Offerings

French 111 (I), 112 (II) Elementary French
For students who have no creditable training in French. Intensive practice in the four language skills, with an audio-lingual approach.
5 hours; 2 hours laboratory
4 credits each semester
Miss Sorenson and Staff

French 115 (I) Basic Oral French
Extensive oral practice and drill of basic linguistic patterns in French for students who need them to qualify for Intermediate French.
5 hours, 4 credits
Prerequisite: Background in the language and placement exam
Miss Sorenson and Staff

French 121 (I, II), 122 (I, II)
Intermediate French
An intensive review and further study of grammar and audio-lingual skills with correlated intermediate-level readings in French literature.
4 hours; 2 hours laboratory
4 credits each semester
Prerequisite: French 112 or equivalent
Mrs. McIlvain and Staff

French 231 (I, II)
Survey of French Literature
A general survey of French literature and culture from the 11th Century through the mid-18th Century.
3 hours, 3 credits
Prerequisite: French 122 or equivalent
Mr. Philip and Staff

French 232 (I, II)
Survey of French Literature
A general survey of French literature and culture from the mid-18th Century through the mid-20th Century.
3 hours, 3 credits
Prerequisite: French 122 or equivalent
Mr. Philip and Staff

French 241 (I, II), 242 (I, II) Traduction, Stylistique et Explication de Texte

An intensive study of composition, problems of translation, methods of literary analysis, and idiomatic translations based on contemporary French, English, and American texts.
3 hours; 2 hours laboratory
3 credits each semester
Prerequisite: French 122 or equivalent, or permission of instructor
Mr. Lebensztejn and Staff

French 261 (I) Modern French Novel in Translation: 1900-1935

Study and discussion of works by Proust, Cocteau, Gide, Saint-Exupéry and Malraux.
3 hours, 3 credits
Prerequisite: English 111 or permission of instructor Mr. Proulx

French 262 (II) Modern French Novel in Translation: 1935 until the present

Study and discussion of works by Sartre, Camus, Mauriac, Robbe-Grillet and Genet.
3 hours, 3 credits
Prerequisite: English 111 or permission of instructor Mr. Proulx

French 301 (I)
La Littérature française au Moyen Age

Survey of French literature from the 11th Century to the 15th, according to genres. All texts (including the *Chanson de Roland, Lancelot, Tristan et Iseut, Roman de Renard,* and lyric poetry) adapted into modern French.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Mr. Volpe

French 311 (I)
La Renaissance française: L'Age de Rabelais

Chronological survey of French literature in the 16th Century, with particular emphasis on continuity with the Middle Ages, consciousness of the New Age, and Italian influence. Readings from Marot, Rabelais, Calvin, Scève, Labé, Marghérite, d'Angoûleme, DuBellay, Ronsard until 1660.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Mrs. McIlvain

French 312 (II) La Renaissance française: L'Age de Montaigne

Readings from Ronsard après 1660, Larivey, Garnier, Montaigne, Sponde, D'Aubigné.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Mr. Volpe

French 321 (I) La Littérature du 17e Siècle: Théâtre et Philosophes

Readings and discussion of works from 17th Century authors including Descartes, Corneille, Racine, Molière, and Pascal.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Mr. Philip

French 322 (II) La Littérature du 17e Siècle: Prose et Poésie

Reading and discussion of works by Boussuet, Boileau, La Fontaine, Madame de La Fayette, La Rochefoucauld, Madame de Sevigné, La Bruyère.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Mr. Philip

French 331 (II)
Théatre et Roman du 18e Siècle

Study and discussion of plays by Marivaux and Beaumarchais, and of novels by Voltaire, Diderot, J. J. Rousseau, Laclos.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Miss Abendstern

French 332 (I)
La Pensée philosophique du 18e Siècle

Study and discussion of philosophical texts by Montesquieu, La Mettrie, Voltaire, Rousseau, Condillac; *l'Encyclopédie.*
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Mr. Lebensztejn

French 341 (I) Le Romantisme français: Préromantisme et Poésie romantique

Chateaubriand and Romantic poets including Lamartine, Hugo, Vigny, Musset, Nerval.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Mr. Philip

French 342 (II) Le Romantisme français: Théatre et Roman romantiques

A study of the French Romantic theatre and novel through reading and discussion of works by Hugo, Vigny, Musset, Sand, Balzac, Stendhal.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Miss Abendstern

French 345 (I) La Poésie symboliste

Readings and discussion of works selected from the poetry of Baudelaire, Verlaine, Rimbaud, and Mallarmé.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Mr. MacCombie

French 346 (II) La Poésie contemporaine

Discussion and readings of works by Claudel, Apollinaire, Aragon, René Char, Frances Ponge, Valery, St. Jean de Perse, among others. (Not to be offered 1968-69.)
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Mr. MacCombie

French 348 (I)
Le Roman français: 1850-1900

Study of novels by Flaubert, Fromentin, Les Goncourt, Maupassant, Zola, Huysmans.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Mr. Proulx

French 351 (I)
Le Théatre français au 20e Siècle

Plays by Jarry, Claudel, Giraudoux, Sartre, Camus, Ionesco, Genet.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Mr. Busi

French 352 (II) Le Roman moderne

Selection of modern French novels from Proust to Robbe-Grillet.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Mr. Proulx

French 362 (II)
L'Education vue par les Ecrivains français

Readings and discussion of French texts relative to pedagogic and educational

theory from authors including LaSalle, Montaigne, Rabelais, and Rousseau, among others.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Mr. Volpe

French 371 (I) Séminaire: La Littérature fantastique au 19e Siècle

Works by Nodier, Balzac, Lautrémont, Barbey d'Aurevilly, Villiers de l'Isle-Adam.
3 hours, 3 credits
Prerequisite: Permission of instructor
Mr. Philip

French 372 (II) Séminaire: Les Avants-Gardes au 20e Siècle

Study and discussion of works by Proust, Roussel, Breton, Artaud, Beckett, Ponge, Blanchot.
3 hours, 3 credits
Prerequisite: Permission of instructor
Mr. Lebensztejn

German

Alfred Hoelzel, Ph.D.,
Assistant Professor of German and Acting Chairman of the Department
Lynn F. Dhority, Ph.D.,
Assistant Professor of German
David H. Miles, Ph.D.,
Assistant Professor of German
Friedrich P. Ott, Ph.D.,
Assistant Professor of German
Andrew Boelcskevy, M.A.,
Instructor in German
Luise Bronner, M.A.,
Instructor in German
Sandra Shuman, B.A.,
Instructor in German
Arnold Ulbrich, M.A.,
Instructor in German

Graduation Requirements

German majors must take a minimum of 24 credits in Junior-Senior level courses, including History of the German Language and German 221-22. A course in History of Germany, given by the History Department, is also required. Second semester Seniors will be given an oral and written exam. The written exam will cover primarily the reading list to be assigned to all majors.

Note: The German Department strongly encourages all majors in German to achieve a solid background in a second field, preferably in an area within the Humanities, or in European History, or in Politics. The extent to which this is possible will be directly related to the amount of creditable prior training in German which a concentrator offers upon entrance.

Course Offerings

German 111 (I), 112 (II)
Elementary German

For students with no creditable training in German. Intensive practice in the four language skills, with an audio-lingual approach.
4 hours; 2 hours laboratory
4 credits each semester Staff

German 121 (I), 122 (II)
Intermediate German

Intensive review of grammar and further development of all four language skills.
4 hours, 4 credits each semester Staff
Prerequisite: German 112 or equivalent

German 221 (I), 222 (II) Advanced German Composition and Conversation

Grammar and stylistics. Oral and written essays.
3 hours, 3 credits each semester
Prerequisite: German 122
Mr. Boelcskevy (I), Mr. Spaethling (II)

German 231 (I), 232 (II)

Introduction to German Literature

Reading of representative masterpieces of German prose, drama and poetry from the Enlightenment to the present day. Works will be discussed in cultural and historical context. Short papers required.
3 hours, 3 credits
Prerequisite: German 122 or equivalent
Mr. Miles (I), Miss Shuman, Mr. Ulbrich (II)

German 241 (I), 242 (II)
Introduction to German Civilization

Readings in German history, politics, philosophy, science, literature and art. (Recommended for students who need a third-year course to fulfill Language Requirement.)
3 hours, 3 credits
Prerequisite: German 122
Miss Bronner, Miss Shuman, Mr. Miles

German 251 (I)
Modern German Literature in Translation

Designed to introduce students with little or no reading knowledge of German to several of the masterpieces of modern German literature. Among the writers represented will be Mann, Hesse, Kafka, Brecht. All lectures, discussions and reading will be entirely in English. German majors may not take this course for credit.
3 hours, 3 credits
Prerequisite: English 111 Mr. Spaethling

German 311 (I), 312 (II) Age of Goethe

German literature covering the period from 1750 to 1830, from Enlightenment through Romanticism.
3 hours, 3 credits
Prerequisite: German 232 or 242
Mr. Dhority (I)
Mr. Spaethling (II)

German 331 (I) German Literature from Naturalism to Expressionism

German literature in the late 19th and early 20th Centuries.
3 hours, 3 credits Mr. Hoelzel
Prerequisite: German 232 or 242

German 332 (II) German Literature from the end of World War I to present

German literature in the Weimar Republic: Mann, Hesse, Kafka, Brecht, Duerrenmatt and Grass, among others.
3 hours, 3 credits Mr. Dhority
Prerequisite: German 232 or 242

German 341 (I)
German Drama from Lessing to the present

A consideration of several major German dramas beginning with Lessing's *Minna von Barnhelm* and ending with *Soldaten* by the contemporary writer Rolf Hochhuth. The dramas will be discussed from the viewpoint of theater as well as of literature.

3 hours, 3 credits Mr. Spaethling
Prerequisite: German 232 or German 242

Italian

Gerald Volpe, Ph.D., *Assistant Professor of French and Italian*
Antonio F. Carrara, M.A., *Instructor in Italian*
Adolph Caso, M.A., *Part-time Lecturer in Italian*

Course Offerings

Italian 111 (I), 112 (II) Elementary Italian
For students who have had no training in Italian. Intensive practice in the four language skills, with an audio-lingual approach.
4 hours; 2 hours laboratory
4 credits each semester Staff

Italian 121 (I), 122 (II) Intermediate Italian
An intensive review and further study of reading skills, with correlated readings in Italian literature.
4 hours, 4 credits each semester
Prerequisite: Italian 112 or equivalent
Mr. Carrara

Italian 231 (I), 232 (II)
Introduction to Italian Literature
A survey of the principal authors and masterpieces of Italian literature from its origins to the 20th Century.
3 hours, 3 credits Mr. Volpe
Prerequisite: Italian 122 or equivalent

Music

John Huggler, B.M., *Assistant Professor of Music*
Nicholas Tawa, M.A., *Assistant Professor of Music*

Course Offerings

Music 111 (I, II) Introduction to Music
Discussion of basic music materials, principles of design, and the cultural significance of representative works in historical sequence.
3 hours, 4 credits Mr. Huggler

Music 121 (I)
Basic Ear Training and Theory Skills
Harmony, melody, and music theory.
3 hours, 4 credits Mr. Huggler
Prerequisite: Permission of instructor

Music 231 (I)
Development of Chamber Music
Studies in selected works from Haydn to Schonberg, centering chiefly on the medium of string quartet.
3 hours, 3 credits Mr. Huggler
Prerequisite: Music 111 or equivalent

Music 241 (I)
19th Century American Music
The growth and development of American music to the year 1900 (Charles Ives) in both its rural-folk and its urban aspects.
3 hours, 3 credits Mr. Tawa

Music 242 (II)
20th Century American Music
The present day ferment in American music, and the gradual emergence of American composers of international stature.
3 hours, 3 credits Mr. Tawa

Music 251 (II) History and Development of Jazz in America
Study of the development of jazz from its origin to the present.
3 hours, 3 credits Mr. Huggler
Prerequisite: Music 111 or permission of instructor

Music 281 (II) Music in the 20th Century
Study of the various directions taken by music since 1900.
3 hours, 3 credits
Prerequisite: Music 111 Mr. Huggler

Philosophy

Bernard Elevitch, Ph.D., *Assistant Professor of Philosophy*
Geoffrey Clive, Ph.D., *Visiting Associate Professor of Philosophy*
Arleen Dallery, M.A., *Instructor in Philosophy*
Richard Horak, M.A., *Part-time Lecturer in Philosophy*
Michael Martin, Ph.D., *Part-time Lecturer in Philosophy*
Timothy Robinson, M.A., *Part-time Lecturer in Philosophy*

Course Offerings

Philosophy 201 (I)
Ancient and Medieval Philosophy
Classical philosophy from pre-Socratic philosophers through Plato and Aristotle. The central issue of medieval philosophy as represented by the ideas of St. Augustine and St. Thomas Aquinas on reason and revelation, the status of universals, and proofs of God's existence.
3 hours, 4 credits
Prerequisite: Sophomore option, Junior standing, or permission of instructor Staff

Philosophy 202 (II) Introduction to Logic
Examination of the forms of valid reasoning, deductive and inductive, and of their role in reflective thinking. Discussion of the functions of language, informal fallacies, the syllogism, and other types of formal argument, methods of science and modern views of the nature of logic and its relation to other fields.
3 hours, 4 credits
Prerequisite: Sophomore option, Junior standing, or permission of instructor Staff

Philosophy 203 (I) Ethical Theory
Introduction to the main problems and theories of nature, scope, and validation of value judgments related to moral actions. Readings from representative, traditional, and contemporary philosophers.
3 hours, 4 credits
Prerequisite: Sophomore option, Junior standing, or permission of instructor Staff

Philosophy 208 (I)
Contemporary Philosophy
Study of the major philosophical movements of the 20th Century, including several of the following: pragmatism, naturalism, logical empiricism, analytic philosophy, existentialism, phenomenology.
3 hours, 4 credits Staff
Prerequisite: Philosophy 201, 202, or 203

Philosophy 232 (II)
Major Currents of 19th Century Thought

A consideration of German Idealism, Dialectical Materialism, Utilitarianism, Existentialism, Pragmatism and Vitalism.
3 hours, 3 credits Staff
Prerequisite: Philosophy 201, 202, or 203

Philosophy 234 (II) Modern Philosophy

Emphasis on the views of the Continental Rationalists (Descartes, Spinoza, Leibniz) and the British Empiricists (Locke, Berkeley, Hume) in relation to general intellectual developments from the Renaissance to the Enlightenment.
3 hours, 3 credits Staff
Prerequisite: Philosophy 201, 202, or 203

Philosophy 245 (I) Theory of Knowledge

A philosophical consideration of knowledge: its nature, forms, methods, scope, and validation.
3 hours, 3 credits Staff
Prerequisite: Philosophy 201, 202, or 203

Philosophy 246 (II) Philosophy of Science

An examination of the nature of scientific explanation, with attention to the social and philosophical consequences of scientific achievement.
3 hours, 3 credits Staff
Prerequisite: Philosophy 201, 202, or 203

Philosophy 251 (I) Plato

A comprehensive study of the dialogues of Plato, with particular attention to their ethical, metaphysical and epistemological reflections and arguments.
3 hours, 3 credits Staff
Prerequisite: Philosophy 201, 202, or 203

Philosophy 262 (II)
The Critical Philosophy of Immanuel Kant

A detailed study of Kant's major work, *The Critique of Pure Reason*, with special attention to his epistemology and critique of metaphysics.
3 hours, 3 credits Staff
Prerequisite: Philosophy 201, 202, or 203

Philosophy 280 (II)
Social and Political Philosophy

An introduction to representative problems and themes of social and political philosophy, especially the concept of human rights, liberty, justice, equality, law, social obligation, and the social contract.
3 hours, 3 credits Staff
Prerequisite: Philosophy 201, 202, or 203

Philosophy 281 (I)
Philosophy of Education

An examination of philosophical ideas and concepts relevant to the nature and aims of education.
3 hours, 3 credits
Prerequisite: None Staff

Philosophy 291 (I) Existentialism

An examination of major forces and concepts in the development of existentialism.
3 hours, 3 credits
Prerequisite: Philosophy 201 or 203, or permission of instructor Mr. Clive

Russian

David Edsall, M.A., *Instructor in Russian*
Anny Newman, M.A., *Instructor in Russian*

Course Offerings

Russian 111 (I), 112 (II) Elementary Russian

For students who have had no training in Russian. Development of the 4 language skills, with an audio-lingual approach.
4 hours; 2 hours laboratory
4 credits each semester Staff

Russian 121 (I), 122 (II)
Intermediate Russian

Intensive review of grammar. Continued practice in speaking, writing and hearing.
4 hours, 4 credits Staff
Prerequisite: Russian 112 or equivalent

Russian 221 (I), 222 (II)
Russian Literature in Translation

Modern Russian literature, concentrating on prose, from 1800 to the present. All reading in English. (Not to be offered 1968-69.)
3 hours, 3 credits
Prerequisite: English 102 or permission of instructor Staff

Russian 231 (I), 232 (II)
Introduction to Russian Literature

Reading of selected short classics of modern Russian literature, 19th and 20th Centuries, combined with written and oral work.
3 hours, 3 credits
Prerequisite: Russian 122 Mrs. Newman

Spanish

James J. Ryan, Ph.D.,
Associate Professor of Spanish and Chairman of the Department
Nellie Sanchez-Arce, Ph.D.,
Associate Professor of Spanish
Rosalind Cohen Gabin, Ph.D.,
Assistant Professor of Spanish
Maria Luisa Osorio, Ph.D.,
Assistant Professor of Spanish
Adorna Walia, Ph.D.,
Assistant Professor of Spanish
Jose de Jesus Barba-Martin, M.A.,
Instructor in Spanish
Hilton Hall, M.A.T., *Instructor in Spanish*
Rogelio Reyes, B.A., *Instructor in Spanish*
Lourdes E. Alvarez, B.A., *Lecturer in Spanish*
Luis Ricardo Alonso, Ph.D.,
Visiting Lecturer in Spanish

Graduation Requirements

Spanish majors are required to take Spanish 241-42, and at least 8 additional semesters of advanced courses, including 2 semesters of Latin-American Literature and 1 semester of Cervantes (Spanish 334).

Majors who plan to go into high school teaching are advised to take Advanced Composition and Conversation and Applied Linguistics (Linguistics for teachers).

Majors who plan to go on for a higher degree in Spanish are advised to take 2 semesters of Golden Age Literature, with

at least 1 semester in the Comedia (drama).

Second semester Seniors must take a comprehensive examination in Spanish covering 3 specific fields of Hispanic Literature (the 3 fields to be chosen by the student). Majors will also be expected to have a general knowledge (literary history, movements, etc.) of Hispanic Literature. In addition, students may receive 6 credits towards their total of 24 major credits for acceptable work on an Honors Thesis written under the direction of an adviser from the Spanish faculty.

Course Offerings

Spanish 111 (I), 112 (II) Elementary Spanish

For students who have no creditable training in Spanish. An intensive study of the 4 language skills based on an audio-lingual approach.
4 hours; 2 hours laboratory
4 credits Staff

Spanish 121 (I), 122 (II)
Intermediate Spanish

An oral review and further study of the language skills with readings in Spanish and Latin-American literature and culture.
4 hours, 4 credits Staff
Prerequisite: Spanish 112 or equivalent

Spanish 231 (I), 232 (II) Introduction to Spanish and Latin-American Culture

Selected readings in the literature and culture of the Hispanic world. Oral reports and papers based on the readings required.
3 hours, 3 credits Staff
Prerequisite: Spanish 122 or equivalent

Spanish 241 (I), 242 (II)
Survey of Spanish Literature

Intensive reading of masterpieces of Spanish literature. Written and oral reports required.
3 hours, 3 credits
Prerequisite: Spanish 122 or equivalent, and permission of instructor Staff

Spanish 251 (I)
Advanced Spanish Grammar

An intensive study of Spanish grammar and syntax with emphasis on written exercises, themes, and papers.
3 hours, 3 credits Staff
Prerequisite: Spanish 122 or equivalent

Spanish 321 (I) Spanish Civilization

Studies in Spanish history, art, architecture, and music as a background for literature; readings, discussions, papers.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff

Spanish 322 (II)
Spanish-American Civilization

Main aspects of the cultural evolution of the Spanish-American countries from pre-Hispanic days to the present.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff

Spanish 331 (I) Poetry of the Golden Age

Selections from writers including Garcilaso, Gongoro, Herrera, Fray, Louis de Leon, San Juan de la Cruz, Lope de Vega, Quevedo. (Not to be offered 1968-69.)
3 hours, 3 credits
Prerequisite: Spanish 242 Staff

Spanish 332 (I) Golden Age Prose

Selections from various forms of Spanish prose such as picaresque, pastoral, and Moorish novel, or moral, mystical, and satiric prose. (Not to be offered 1968-69.)
3 hours, 3 credits
Prerequisite: Spanish 242 Staff

Spanish 333 (I) Golden Age Theater

Selections from writers including Alarcon, Calderon, Cervantes, Lope de Vega, Tirso de Molina, and others. (Not to be offered 1968-69.)
3 hours, 3 credits
Prerequisite: Spanish 242 Staff

Spanish 334 (II) Cervantes

An intensive study of the works of Cervantes with special emphasis on *Don Quixote*.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff

Spanish 351 (I)
The Generation of Eighteen Ninety-Eight

Selections from Azorín, Machado, Pio Baroja, Valles-Inclan, and others. (Not to be offered 1968-69.)
3 hours, 3 credits
Prerequisite: Spanish 242 Staff

Spanish 352 (I)
20th Century Spanish Literature

Selections by pre-Civil War writers including Garcia-Lorca, Gomez de la Serna, Guillen, Jimenez, Miro, Ortega, Perez de Ayala, Salinas. (Not to be offered 1968-69.)
3 hours, 3 credits
Prerequisite: Spanish 242 Staff

Spanish 353 (I)
Contemporary Spanish Literature

Selections from Blas de Otero, Cela, Gironella, Laforet, Matute, and others.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff

Spanish 371 (I), 372 (II)
Survey of Spanish-American Literature

Masterpieces from the Colonial period to the 20th Century examined against the background of historical events, social pressures, and European literary movements.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff

Spanish 373 (I)
Contemporary Spanish-American Novel

Extensive readings in the great works of contemporary Spanish-American prose. Concentrates on the major themes of man against nature, man against society, "indigenismo", "criollismo".
3 hours, 3 credits
Prerequisite: Spanish 242 Staff

Spanish 374 (II) Studies in Contemporary Essays and Poetry of Spanish America

Extensive readings in the great works of modern poetry and essays of Spanish America.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff

Divisional Courses in Humanities

Classics 331 (I), 332 (II)
Greek and Roman Civilizations

A survey of the literature, philosophy and art of Greece and Rome in their historical setting. In English. See Department of Classics.
3 hours, 3 credits Mrs. Poggioli

French 261 (I), 262 (II)
Modern French Novel in Translation

Study and discussion of works by French writers, 1900 to the present. See Department of French.
3 hours, 3 credits
Prerequisite: English 111 or permission of instructor Mr. Proulx

German 251 (I)
Modern German Literature in Translation

Translated representative selections from major modern German authors. See Department of German.
3 hours, 3 credits
Prerequisite: English 111 or permission of instructor Mr. Spaethling

Humanities 245 (I)
The Tradition of Western Drama

The intents, designs, and techniques of the drama of the Western World, from the classic Greek to the contemporary European and American theatre. Emphasis on the cultural environment of each of the major periods and locales of the drama and the relation of the theatre to its public.
3 hours, 3 credits
Prerequisite: English 111 Mr. Roberts

Humanities 247 (II)
Readings in European Fiction

The art and the thought of major European novelists, including Dostoevsky, Tolstoy, Flaubert, Stendhal, Gide, Mann, and Kafka.
3 hours, 3 credits
Prerequisite: English 111 Mr. Stock

Humanities 252 (II)
History and Art of the Film

An introduction to the art of the film, including the viewing and analysis of representative experimental, documentary and feature films; reading in the literature of the film, critical papers, and a project in film production.
3 hours, 3 credits
Prerequisite: Junior-Senior standing; permission of instructor Mr. Risse

Russian 221 (I), 222 (II)
Russian Literature in Translation

Russian literature from 1800 to the present. (Not to be offered 1968-69.)
3 hours, 3 credits
Prerequisite: English 102 or permission of instructor

DIVISION OF MATHEMATICS

Taffee T. Tanimoto, Ph.D.,
Professor of Mathematics and Chairman of the Division

Alfonso G. Azpeitia, Ph.D.,
Professor of Mathematics
Herbert Kamowitz, Ph.D.,
Associate Professor of Mathematics
Juan C. Merlo, Ph.D.,
Associate Professor of Mathematics
John J. Miller, Ph.D.,
Associate Professor of Mathematics
Geza Schay, Jr., Ph.D.,
Associate Professor of Mathematics
Deanne Dickinson, Ph.D.,
Assistant Professor of Mathematics
Ernest P. Dubois, Ph.D.,
Assistant Professor of Mathematics
Charles Freifeld, Ph.D.,
Assistant Professor of Mathematics
Joan D. Lukas, Ph.D.,
Assistant Professor of Mathematics
John A. Lutts, Ph.D.,
Assistant Professor of Mathematics
Stephen K. Parrott, Ph.D.,
Assistant Professor of Mathematics
Marie Lynch Herman, M.A.,
Instructor in Mathematics
Mary L. Hogan, M.S.,
Instructor in Mathematics
Some Nath Mukherjee, Ph.D.,
Instructor in Mathematics
Joseph F. Russell, M.A.,
Instructor in Mathematics
Dennis Wortman, B.S.,
Instructor in Mathematics
Carl Cohen, M.A., *Lecturer in Mathematics*

Graduation Requirements

The B.A. degree with a major in Mathematics will be awarded upon the satisfactory completion of the core requirements, of which the Science requirement must be Physics 111 and 112, and Math 105, Math 106, Math 150, Math 151 and 8 courses beyond the Math 151 level. Mathematics majors should start with Math 105 in their Freshman year.

NOTE: Mathematics credits are not required for graduation except for majors in those departments stipulating otherwise.

Course Offerings

NOTE: Prerequisite for all Math courses is preferably 2 years of Algebra and 1 year of Plane Geometry.

Math 100 (I, II) Liberal Arts Mathematics I

An historical-cultural survey of the main areas of mathematics. Emphasizes the interplay of these areas with man's philosophic, artistic, commercial, and scientific pursuits.
3 hours, 4 credits Staff

Math 101 (I, II) Liberal Arts Mathematics II

An intuitive and primarily descriptive survey of several areas of mathematics. Stresses understanding through concrete examples. Topics include elementary number theory, elementary finite group, non-euclidean geometry, etc., and how they relate to the real world.
3 hours, 4 credits Staff

Math 102 (I, 11) Finite Mathematics

For non-Science or non-Mathematics majors. Topics include elementary set theory; combinations, permutations and other "counting" formulas; discrete probability theory; random variables and their distributions.
3 hours, 4 credits Staff

Math 103 (I, II) Pre-Calculus Mathematics

For students who desire to enter the Calculus sequence.
3 hours, 4 credits Staff

Math 104 (I, II) Survey of Calculus

Calculus developed intuitively and applied to problems in geometry, physics, and probability. A terminal course for non-Science and non-Mathematics majors.
3 hours, 4 credits Staff

Math 105 (I, II) Calculus I

The first in the Calculus sequence of courses for Science and Mathematics majors. Starting with the basic concepts of functions and limits. Topics include derivatives and their applications, definite and indefinite integrals with application to geometrical and physical problems. Only simple algebraic and transcendental functions are discussed.
3 hours, 4 credits
Prerequisite: Math 103 or equivalent Staff

Math 106 (I, II) Calculus II

A continuation of Math 105. Topics are integration, applications of the integral, sequences and series.
3 hours, 4 credits
Prerequisite: Math 105 or equivalent Staff

Math 150 (I, II) Calculus III

An introduction to linear algebra with applications to matrix differential and integral operators, sequences and series, partial differentiation and application to multivariate calculus and geometry.
3 hours, 4 credits
Prerequisite: Math 106 or equivalent Staff

Math 151 (I, II)
Differential Equations and Allied Topics

Linear differential equations of the first and second order, general theory of linear differential equations, matrix equations and physical applications.
3 hours, 4 credits
Prerequisite: Math 150 or equivalent Staff

Math 152 (I, II) Linear Algebra I

Vectors, vector spaces, matrices, linear and bilinear mappings. Numerical aspects of matrix inversion and the associated eigenvalue and eigenvector determinations.
3 hours, 4 credits
Prerequisite: Math 106 or equivalent Staff

Math 153 (I, II) Linear Algebra II

Groups, rings, polynomials, differential and integral linear operators; an introduction to inner product spaces, exterior forms and multilinear algebra.
3 hours, 4 credits
Prerequisite: Math 152 Staff

Math 201 (I) Advanced Calculus I

Implicit function theorem, multiple integration, vector calculus, Green's Theorem, Stokes' Theorem.
3 hours, 3 credits
Prerequisite: Math 151 Staff

Math 202 (II) Advanced Calculus II

Continuous functions, convergence, differentiability, measure and integration, and various superficial aspects of real variable theory.
3 hours, 3 credits
Prerequisite: Math 201 Staff

Math 203 (I) Abstract Algebra I

Sets on logic, integer and congruences, lattices, finite groups.
3 hours, 3 credits
Prerequisite: Math 151 Staff

Math 204 (II) Abstract Algebra II

Rings, fields, vector spaces and quadratic forms, structure of groups, and introduction to multilinear algebra.
3 hours, 3 credits
Prerequisite: Math 203 Staff

Math 205 (I) Probability and Statistics I

An introduction to statistical concepts, central limit theorem, elementary measure, finite and continuous probability.
3 hours, 3 credits
Prerequisite: Math 151 Staff

Math 206 (II) Probability and Statistics II

Stochastic processes and time series analyses.
3 hours, 3 credits
Prerequisite: Math 205 Staff

Math 251 (I)
An Introduction to Real Analysis

Real numbers, topology of reals, infinite series, continuity, Weierstrass approximation, differentiation, integration, power series and orthonormal systems.
3 hours, 3 credits
Prerequisite: Math 202 Staff

Math 252 (II)
An Introduction to Complex Analysis

Complex numbers, complex functions, power functions, trigonometric functions, Moebius transformations. Differentiation and integration of analytic functions, Cauchy's Theorem, residues, series and singularities and meromosphic functions.
3 hours, 3 credits
Prerequisite: Math 202 Staff

Math 253 (I) Topics in Geometry I

Topics in classical Euclidean and non-Euclidean geometrics, projective geometry, lattices and finite geometrics.
3 hours, 3 credits
Prerequisite: Math 153 or 204 Staff

Math 254 (II) Topics in Geometry II

An introduction to classical differential geometry with corresponding modern algebraic approaches leading to an introduction to Riemannian geometry. Techniques involve tensor analysis and multilinear algebra.
3 hours, 3 credits
Prerequisite: Math 204 Staff

Math 255 (I) Mathematical Logic

Formal theories, consistency, completeness, decidability, Godel's incompleteness theorem for first order arithmetic (Peano number theory). Introduction to axiomatic set theory, ordinal numbers, cardinal numbers.
3 hours, 3 credits
Prerequisite: Math 151 Staff

Math 260 (II) Elementary Mathematics from an Advanced Standpoint

NOTE: Required for Math secondary teaching certification; also satisfies methods course required by the State for teaching. Advanced plane geometry and application with generalized interpretations of elementary high school topics. Algebraic topics such as symmetric functions, cyclic groups, algebraic number fields and their extensions, etc., and classical standard problems, e.g., duplication of the cube, trisection of an angle, squaring the circle, etc.
3 hours, 3 credits
6 credits with 20 hours practice teaching
Prerequisite: Math 151 and
6 hours Education courses Staff

DIVISION OF NATURAL SCIENCES

Biology

Lawrence Kaplan, Ph.D.,
Professor of Biology and Chairman of the Department
Herbert Lipke, Ph.D., *Professor of Biology*
Nevin Weaver, Ph.D., *Professor of Biology*
John A. Freeberg, Ph.D.,
Associate Professor of Biology
Ruth R. Bennett, Ph.D.,
Assistant Professor of Biology
Martha Bethell, Ph.D.,
Assistant Professor of Biology
Stuart W. Bradford, Ph.D.,
Assistant Professor of Biology
Judith Reynolds, Ph.D.,
Assistant Professor of Biology
Stanley Robrish, Ph.D.,
Assistant Professor of Biology
Fuad M. Safwat, Ph.D.,
Assistant Professor of Biology
John A. Schultz, Ph.D.,
Assistant Professor of Biology
François Vuilleumier, Ph.D.,
Assistant Professor of Biology
Bettina Harrison, M.A.,
Instructor in Biology
Thomas Joseph, M.S., *Instructor in Biology*
Joan Kelly, M.A., *Instructor in Biology*
Wesley Tiffney, M.S., *Instructor in Biology*
Patricia Brennan, M.S., *Lecturer in Biology*
Priscilla E. Doff, B.S., *Lecturer in Biology*
Katherine Heckscher, M.S.,
Lecturer in Biology
Eleanor Poor Murphy, M.A.,
Lecturer in Biology
Sarah Page, M.S., *Lecturer in Biology*

Graduation Requirements

Biology majors will fall into 3 categories: Track 1, (students who do not plan to go to graduate school); Track 2, (students who may go to graduate school); Track 3, (premedical students).

All majors are required to take Biology 101-02, Chemistry 103-04, 1 year Introductory Physics, 2 years Advanced Biology (211-12 or 241-42; and 271-72 or 371-72), and 1 year Mathematics (preferably Math 105-06, especially Track 2 and 3 majors).

In addition, Track 1 students must take 1 year of other Advanced Biology, and Track 2 and 3, 1 year of Organic Chemistry. Track 2 majors are also strongly advised to choose Biology 371-72 and to elect Physical Chemistry (Chemistry 213-14, with its prerequisite of Math 105-06, Physics 111-12).

Course Offerings

Biology 101 (I), 102 (II) General Biology

An integrated course stressing the principles of biology. Life examined at the molecular, cellular, organismal, and population level, and structure considered in relation to function or to illuminate principles. Emphasis on evolution as the major unifying principle of biology.
3 hours lecture; 1 hour discussion;
2 hours laboratory
4 credits each semester Staff

Biology 211 (I), 212 (II)
Biology of Organisms

The major groups of protists, plants and animals studied to elucidate the principles and mechanisms of reproduction, growth, development, maintenance, integration, and responses to the environment. Covers much of the material normally covered in courses in development, physiology, and on various groups of organisms.
3 hours; 6 hours laboratory 5 credits
Prerequisite: Biology 101-02 Staff

Biology 213 (I), 214 (II)
Biology of Organisms Lecture

The lecture portion of Biology 211-12. Designed as an elective for students not majoring in Biology.
3 hours, 3 credits
Prerequisite: Biology 101-02 Staff

Biology 241 (I), 242 (II)
Biology of Populations

Populations considered from the standpoint of genetic mechanisms, probability and population genetics, relationship to the environment and to each other, taxonomy and evolution.
3 hours; 6 hours laboratory
5 credits
Prerequisite: Biology 102 Staff

Biology 243 (I), 244 (II)
Biology of Populations Lecture

The lecture portion of Biology 241-42. Designed as an elective for students not majoring in Biology.
3 hours, 3 credits
Prerequisite: Biology 102 Staff

Biology 271 (I), 272 (II)
Cell Structure and Function

Cells studied to elucidate the chemical basis of life, energy transformations, biosyntheses, the molecular basis of inheritance, control mechanisms in cell function, the specialization of cells and their integration in tissues. Covers much of the material normally included in courses in cytology, cell physiology, and biochemistry.
3 hours; 6 hours laboratory
5 credits
Prerequisite: Biology 102; Chemistry 102 or 104. Prerequisite or corequisite: Biology 211-12; 241-42 Staff

Biology 273 (I), 274 (II)
Cell Structure and Function Lecture

The lecture portion of Biology 271-72. Designed for students not majoring in Biology.
3 hours, 3 credits
Prerequisite: Biology 102; Chemistry 102 or 104 Staff

Biology 351 (I, II) Topics in Biology

A narrow field of Biology considered in great detail. Each topic taught by a different faculty member. Several topics may be offered each semester.
1 hour, 1 credit
Prerequisite: Permission of instructor Staff

Biology 371 (I), 372 (II) Biology of Cells

A rigorous course covering the physical and chemical basis of the universe and of life, energy transformations, biosyntheses, and the molecular basis of inheritance, control of cell functions, cell structure and specialization, communication and exchange of materials between cells, and integration of tissues. Treats in depth much material included in courses in cytology, cellular physiology, molecular genetics, biochemistry and biophysics.
3 hours; 6 hours laboratory
5 credits
Prerequisite: Biology 102; Chemistry 154 or 156; Physics 102 Staff

Biology 373 (I), 374 (II)
Biology of Cells Lecture

The lecture portion of Biology 371-372.
3 hours, 3 credits
Prerequisite: Biology 102; Chemistry 154 or 156; Physics 102 or 112 Staff

Biology 391 (I), 392 (II) Honors in Biology

Laboratory or library research under the guidance of a faculty advisor, resulting in a thesis presented to the Biology staff.
1 to 3 credits
Prerequisite: Honor standards; Senior Standing; permission of honors committee Staff

Chemistry

Ernest I. Becker, Ph.D.,
Professor of Chemistry and Chairman of the Department

J.-P. Anselme, Ph.D.,
Associate Professor of Chemistry

Walter J. Lehmann, Ph.D.,
Associate Professor of Chemistry

Thomas N. Margulis, Ph.D.,
Associate Professor of Chemistry

Lowell M. Schwartz, Sc.D.,
Associate Professor of Chemistry

Robert I. Gelb, Ph.D.,
Assistant Professor of Chemistry

Peter A. Hurwitz, Ph.D.,
Assistant Professor of Chemistry

Joseph E. Knoll, Ph.D.,
Assistant Professor of Chemistry

Daniel A. Laufer, Ph.D.,
Assistant Professor of Chemistry

Walter E. Weibrecht, Ph.D.,
Assistant Professor of Chemistry

Leverett J. Zompa, Ph.D.,
Assistant Professor of Chemistry

Kenneth Cerny, B.S., *Lecturer in Chemistry*

Paul A. Keaveney, M.A.,
Lecturer in Chemistry

Graduation Requirements

Chemistry majors may elect to follow Track 1, (students intending a career in Chemistry) or Track 2, (students intending a career outside of Chemistry, e.g., premedical).

Both Track 1 and 2 majors are required to take Chemistry 103-04, 153-54, 213-14 and 223-24, 395-96 or 397-98, Mathematics 105-06 and Physics 111-12.

In addition, Track 1 majors must take Chemistry 361 and 370, and must elect at least 15 credits from the following: Chemistry 354-55, 1 semester Advanced Physical Chemistry, 2 semesters Mathematics beyond 106, 1 semester Physics beyond 112, any number semesters graduate Chemistry courses, and any number semesters additional courses in Biology, Physics or Mathematics with prior approval of the Chemistry Department. Track 1 majors must fulfill their Core Language Requirement with German or Russian.

Track 2 majors must elect at least 21 credits from Chemistry 361, 370 and the electives listed in paragraph above.

Course Offerings

Chemistry 101 (I) Chemical Science I
First semester of a one year introductory course for non-science majors. The basic principles of atomic structure, molecular structure and chemical change. Topics include atomic theory, the periodic table, chemical bonding and thermochemistry. Laboratory work includes preparation and analysis of natural materials.
2 hours lecture; 1 hour recitation;
3 hours laboratory alternate weeks
4 credits
Mr. Margulis, Mr. Weibrecht and Staff

Chemistry 102 (II) Chemical Science II
Systematic descriptive chemistry and the chemistry of biological substances.
2 hours lecture; 1 hour recitation;
3 hours laboratory alternate weeks
4 credits
Prerequisite: Chemistry 101
Mr. Margulis, Mr. Weibrecht and Staff

Chemistry 103 (I) Chemical Principles I
Introduction to the fundamental principles of chemistry including structure, the periodic table of the elements, chemical bonding and molecular structure, states of matter based on kinetic theory, chemical kinetics, equilibria, and elementary thermodynamics. Laboratory work an introduction to methods of quantitative chemical techniques.
2 hours lecture; 1 hour recitation;
6 hours laboratory
5 credits Mr. Knoll, Mr. Zompa and Staff

Chemistry 104 (II) Chemical Principles II
Introduction to electrochemistry, oxidation-reduction reactions, acid-base systems, and a survey of the chemical properties of elements based on principles already introduced. Laboratory work presents qualitative and quantitative analysis.
2 hours lecture; 1 hour recitation;
6 hours laboratory
5 credits
Prerequisite: Chemistry 103
Mr. Knoll, Mr. Zompa and Staff

Chemistry 153 (I), 154 (II)
Organic Chemistry
An intensive survey of the synthesis and properties of the main classes of organic compounds including mechanistic discussions of their reactions. Laboratory illustrates the preparation, purification and identification of organic compounds by classical experimental methods with an introduction to modern purification, analytical and instrumental techniques.
3 hours; 3 hours laboratory
4 credits
Prerequisite: Chemistry 104 Mr. Anselme

Chemistry 155 (I), 156 (II)
Introduction to Organic Chemistry
A survey of the synthesis and properties of the main classes of organic compounds including mechanistic discussions of their reactions. Special topics in natural products and processes. Laboratory same as above. Primarily for Biology majors.
3 hours; 3 hours laboratory; 4 credits
Prerequisite: Chemistry 104 Mr. Becker

Chemistry 213 (I), 214 (II)
Physical Chemistry
A lecture course in the fundamental theories and laws of physical chemistry. Topics include states of matter, thermodynamics, chemical equilibria, phase equilibria, the structure of matter and chemical kinetics.
3 hours, 3 credits
Prerequisite: Chemistry 104, Math 106
Physics 112;
Chemistry 213 before 214 Mr. Schwartz

Chemistry 223 (I), 224 (II)
Physical Chemistry Laboratory
A laboratory course designed to illustrate the principles introduced in Chemistry 213-14 and to provide practice in modern methods of physics-chemical experimental measurement.
6 hours, 2 credits Mr. Hurwitz
Corequisite: Chemistry 213-14

Chemistry 354 (II)
Introductory Biochemistry
Structure, chemistry and metabolism of nucleic acids, proteins and carbohydrates.
3 hours, 3 credits
Prerequisite: Chemistry 154 or 156
or equivalent Mr. Laufer

Chemistry 355 (I)
Topics in Organic Chemistry
Senior-level discussion of selected topics in organic chemistry.
3 hours, 3 credits
Prerequisite: Chemistry 154
Corequisite: Chemistry 351 (to be offered in 1969-70; in 1967-68 was incorporated in Chemistry 153-54)
Mr. Anselme, Mr. Becker, Mr. Laufer

Chemistry 361 (I)
Analytical Instrumentation
Principles and use of instrumental methods in analysis. Topics in electronics, electrochemistry, spectroscopy, flamephotometry, mass spectrometry, NMR.
3 hours; 3 hours laboratory
4 credits
Prerequisite: Chemistry 214 Mr. Gelb

Chemistry 370 (II) Inorganic Chemistry
Discussion of the fundamental principles of modern inorganic chemistry.
2 hours; 4 hours laboratory
4 credits
Prerequisite or corequisite:
Chemistry 104, 154, 214 and 224
Mr. Weibrecht, Mr. Zompa

Chemistry 395 (I), 396 (II)
Advanced Laboratory in Chemistry
Special laboratory topics in chemistry.
12 hours laboratory, 4 credits
Prerequisite: Chemistry 214 Staff

Chemistry 397 (I), 398 (II)
Senior Thesis in Chemistry
Original investigation carried out by the student under the guidance of a faculty advisor. A careful literature search is required before the study is begun; the student is required to give an oral résumé of his work before the Chemistry staff.
12 hours laboratory, 4 credits
Prerequisite: Chemistry 214 Staff

Physics

Marvin M. Antonoff,
Associate Professor of Physics and Acting Chairman of the Department
George Salzman, Ph.D.,
Professor of Physics
Donald H. Lyons, Ph.D.,
Associate Professor of Physics
Freda Salzman, Ph.D., *Part-time*
Associate Professor of Physics
Edward S. Ginsberg, Ph.D.,
Assistant Professor of Physics
Harold Mahon, Ph.D.,
Assistant Professor of Physics
Martin Posner, Ph.D.,
Assistant Professor of Physics
Nareshchandra P. Shah, Ph.D.,
Assistant Professor of Physics
Ronald Laing, Ph.D.,
Visiting Lecturer in Physics
Paul Sagalyn, Ph.D.,
Part-time Lecturer in Physics

Graduation Requirements

Track 1 is intended primarily for students who plan to pursue graduate studies in a physical science; Track 2, for students who have broader interests, e.g., for those who plan to teach in pre-college programs. Election of Track 2 will not preclude a professional career in Physics; however, a longer period of graduate study will be required than in the case of Track 1.

Track 1 majors must have Physics 211-12, 321-22, 421-22, 4 credits of laboratory courses at the level of 281 or higher (2 of these credits must be taken in 381 or 382), 1 course from those numbered 300 or above and 1 semester of an approved Mathematics course beyond Mathematics 151. Students interested in this option are advised to begin their Mathematics courses and also Physics in the Freshman year.

Track 2 requires 32 credit hours in Physics courses including Physics 211-12, 321, and 4 credits of laboratory courses at the level of 281 or higher (2 of these credits must be taken from 381 or 382) and Mathematics 150. The student may offer up to 9 credit hours in approved cognate courses in the Natural Sciences in lieu of Physics electives.

NOTE: Students who plan graduate work in Physics are advised to fulfill their Language Core Requirement with French, German, or Russian.

Course Offerings

Physics 101 (I), 102 (II)
Concepts of Modern Physics

A selection of topics and problems of modern physics, with emphasis on the physical concepts, the experimental aspects, and their interrelation. Use of the historical approach to illustrate the role of the scientific method in the evolution of physical theories. Discussion of astrophysics, elementary particle physics, nuclear physics and solid state physics.
2 hours lecture; 2 hours recitation-lab.
4 credits each semester
Mr. Salzman and Staff

Physics 111 (I) Fundamentals of Physics I

The fundamental areas of physics covered in an integrated development of classical and modern concepts. Mathematical methods for the solution of problems. Subjects include mechanics, special relativity, thermodynamics, heat and kinetic theory.
3 hours lecture; 2 hours recitation;
2½ hours laboratory alternate weeks
5 credits
Prerequisite or corequisite:
Mathematics 105 Mr. Lyons and Staff

Physics 112 (II) Fundamentals of Physics II

Subjects include electricity, magnetism, and elementary wave motion, including topics in sound and light. Introduction to the quantum nature of light and wave aspects of particles.
3 hours lecture; 2 hours recitation;
2½ hours laboratory alternate weeks
5 credits
Prerequisite: Physics 111
Prerequisite or corequisite:
Mathematics 106 Mr. Lyons and Staff

Physics 211 (I)
Introduction to Contemporary Physics

Wave motion; electromagnetism and light; atomic physics and elements of quantum mechanics; introduction to elementary particle physics, nuclear physics and solid state physics.
3 hours, 3 credits
Prerequisite: Physics 112 or permission of instructor
Prerequisite or corequisite;
Mathematics 150 Mr. Shane

Physics 212 (II) Mechanics

Principles of Newtonian mechanics, conservation laws, gravitational potential theory and conservative fields, central forces, oscillatory systems, rigid-body rotation, and relativistic mechanics.
3 hours, 3 credits
Prerequisite: Physics 211 or permission of instructor; Mathematics 150 Mr. Shane

Physics 281 (I), 282 (II)
Physical Laboratory

Basic principles of experimental physics and error analysis. Experiments in mechanics, heat, optics, electricity, magnetism, atomic and nuclear physics.
4 hours laboratory alternate weeks for each credit, 1-2 credits
Prerequisite: Physics 102 or 112, or permission of instructor Mr. Shah

Physics 321 (I)
Theory of Electricity and Magnetism (I)

Basic concepts of electric magnetic fields: electrostatics, magnetostatics, electric currents, electromagnetism; development of Maxwell's equations and simple applications, physical optics: reflection, dispersion, polarization and diffraction.
3 hours, 3 credits
Prerequisite: Mathematics 150
Prerequisite or corequisite: Physics 212 or permission of instructor Mr. Ginsberg

Physics 322 (II)
Theory of Electricity and Magnetism (II)

Description of the phenomena of electricity and magnetism in mathematical terms: boundary value problems and boundary conditions, transmission lines, wave guides, radiation from a moving charge; special relativity.
3 hours, 3 credits Mr. Ginsberg
Prerequisite: Physics 321, Mathematics 151

Physics 350 (I) Statistical Physics

Topics in heat, thermodynamics, kinetic theory and elementary statistical mechanics.
3 hours, 3 credits
Prerequisite: Physics 212 or permission of instructor Mr. Antonoff

Physics 381 (I), 382 (II)
Intermediate Laboratory

Experiments in geometrical and physical optics, electronics, atomic physics, nuclear physics. Individual program of experiments for each student in accordance with his interests and previous experience.
4 hours laboratory alternate weeks for each credit, 1-4 credits Mr. Posner
Prerequisite or corequisite: Physics 321

Physics 421 (I) Atomic Physics and Introductory Quantum Mechanics

The fundamentals and elementary applications of quantum mechanics with emphasis on physical content rather than formalism. Elementary wave mechanics developed and applied to simple atomic structure. Topics include spectroscopic and other phenomena which form the experimental basis of modern atomic physics; the role of the Pauli principle and spin in determining periodic atomic properties; radiation phenomena.
3 hours, 3 credits
Prerequisite: Physics 212 or permission of instructor Mrs. Salzman

Physics 422 (II)
Nuclear and Particle Physics

The basic properties of nuclei, particle scattering, radioactivity, nuclear stability, dynamics of nuclear reactions, potential well and barrier problem in quantum mechanics, particles.
3 hours, 3 credits
Prerequisite: Physics 421 Mrs. Salzman
Prerequisite: Physics 421

Physics 430 (II)
Introduction to Solid State Physics

An introductory treatment of representative aspects of the physics of solids.
3 hours, 3 credits Mr. Antonoff
Prerequisite: Physics 350 and 421

Physics 481 (I), 482 (II)
Advanced Laboratory

Experimental work in a variety of fields selected to meet the needs of the student.
6 hours laboratory, 3 credits
Prerequisite: Physics 381 or permission of instructor Mr. Mahon and Staff

Premedical Program

Students interested in a career in the medical profession should check Premedical Requirements under both Biology and Chemistry in the Division of Natural Sciences.

Students who demonstrate interest in and ability for a medical career should register with the Premedical Committee at the start of their third semester. The Committee will advise the student on matters concerning undergraduate curriculum, applications to dental, medical and veterinary schools, and will oversee the evaluation of his record at the University of Massachusetts at Boston. Students should seek out information on graduate admission requirements as early as possible. Faculty advisers are Dr. Laufer, Department of Chemistry, and Dr. Schultz, Department of Biology.

DIVISION OF SOCIAL SCIENCES

Richard H. Powers,
Chairman of the Division

Economics

Harold Wolozin, Ph.D.,
Professor of Economics and Chairman of the Department

Louis Esposito, Ph.D.,
Assistant Professor of Economics

Leonard J. Kirsch, Ph.D.,
Assistant Professor of Economics

Michelle Turnovsky, M.B.A.,
Instructor in Economics

John D. ffolliott, M.B.A.,
Visiting Lecturer in Economics

Jeffrey M. Fisher, B.A.,
Visiting Lecturer in Economics

Otis N. Minot, Ph.D.,
Part-time Lecturer in Economics

Graduation Requirements

All Economics majors are required to take Economics 121-22, 215-16 and 255. The normal major will be 24 hours of Junior-Senior level courses, although by permission of the Department up to 6 hours in related disciplines may be substituted for Economics courses.

Majors planning to go on to graduate study are advised to take Economics 251 and 252 and a Senior Seminar, which in some cases will be multi-disciplinary.

Pre-business Economics majors are required to take Math 102, Economics 131-32, 232, 255, 263, and 304.

Seniors who have a cumulative average of at least 3.0 may be invited by the Department to participate in an Honors Semester to count 3 credits toward the major.

Course Offerings

Economics 121 (I), 122 (II)
Principles of Economics

An introduction to the methods of economic analysis and their application to the problems of society.
3 hours, 4 credits each semester Staff

Economics 131 (I), 132 (II)
Principles of Accounting

An introduction to the principles of collecting, recording, and interpreting accounting data.
3 hours, 4 credits Staff

Economics 141 (I, II) Economic Literacy: Economics for Citizenship

For non-majors and especially useful for persons who may teach social studies or economics in secondary schools. Economic theory and the development of the major economic institutions in our society. (Course not open to those who take Economics 121. It may serve as prerequisite for all advanced courses for non-Economics majors.)
3 hours, 4 credits Staff

Economics 213 (I, II) Urban Economics

A study of the central problems of the megopolis, and the evolving techniques to cope with them.
3 hours, 3 credits
Prerequisite: Economics 122 Staff

Economics 215 (I) Intermediate Economic Theory I: Macro-Economics

Analysis of the forces determining the level and structure of gross national output, and those government policies which attempt to change or stabilize economic activities in the United States.
3 hours, 3 credits
Prerequisite: Economics 122 Mr. Kirsch

Economics 216 (II) Economic Theory II: Micro-Economics

Economic analysis of the individual unit within the economy: the firm, industry, consumer, and the determination of prices in various kinds of markets.
3 hours, 3 credits
Prerequisite: Economics 122 Mr. Esposito

Economics 232 (I) Industrial Organization

Presentation of a theoretical framework for the analysis and evaluation of markets. Some American industries examined to illustrate usefulness of economic theory in explaining price and output policy.
3 hours, 3 credits
Prerequisite: Economics 216 Mr. Esposito

Economics 235 (I) International Economics

Theory of international trade, the balance of payment and its adjustment under various exchange rate systems, specific problems concerning the United States, international cooperation, international organizations.
3 hours, 3 credits Mr. Schiavo-Campo
Prerequisite: Economics 122

Economics 236 (II) Economic Development

Economic meaning of underdevelopment. Evaluation of various policies and strategies for economic growth in terms of the social and political framework existing in underdeveloped countries.
3 hours, 3 credits Mr. Schiavo-Campo
Prerequisite: Economics 122

Economics 245 (II) Income Distribution

Study of the economics of the size distribution of income. (Not offered 1968-69.)
3 hours, 3 credits
Prerequisite: Economics 122 Staff

Economics 247 (II) Economics of Social and Human Resources

Study of the development of social and human resources in an economy and the relationship between private and public sectors. General survey of public expenditure criteria, cost benefit analysis and the balance between social and private capital in a mixed economy.
3 hours, 3 credits
Prerequisite: Economics 122 Staff

Economics 251 (I) Mathematical Economics

Static and dynamic models of economic behavior will be formulated.
3 hours, 3 credits
Prerequisite: Mathematics 106 or equivalent; Economics 215-16 Mr. Toda

Economics 252 (II) Econometrics

Application of statistical methods to economic research. Emphasis on the traditional linear regression model and its extensions.
3 hours, 3 credits
Prerequisite: Economics 255 Mr. Toda

Economics 255 (I, II) Statistical Methods

Survey of statistical method as a tool for research and decision in the social sciences.
3 hours, 3 credits
Prerequisite: Mathematics 102 or equivalent Mr. Toda

Economics 263 (I) Introduction to Data Processing as a Tool for Social Science and Management Analysis

A rigorous introduction to data processing emphasizing the mathematical and theoretical fundamentals of data processing. Broad principles illustrated with examples drawn from current data processing projects. Stresses mathematical and logical concepts useful in the social sciences and management.
3 hours, 3 credits
Prerequisite: Mathematics 102 or equivalent Staff

Economics 272 (II) Comparative Economic Systems

Relationship between market and nonmarket mechanisms in the production and distribution of economic resources in 4 different economies. First half devoted to analysis of contemporary American capitalism, the British economy under Labor Government 1945-50, and the German economy 1934-45. Second half concentrates on planned economy of the USSR. (Not to be offered 1968-69.)
3 hours, 3 credits
Prerequisite: Economics 122 Mr. Kirsch

Economics 291 (II) Economics of Labor and Collective Bargaining

History of labor in the U.S. The economic theory of wage determination and collective bargaining.
3 hours, 3 credits
Prerequisite: Economics 122 Mr. Kirsch

Economics 304 (II) Financial Institutions

An intensive study of the structure and function of various institutions that comprise the U.S. financial system.
3 hours, 3 credits
Prerequisite: Economics 122 Staff

Economics 382 (I, II) Seminar

A Senior Seminar conducted hy various members of the faculty with concentration on their fields of scholarly interest.
3 hours, 3 credits Mr. Wolozin and Staff
Prerequisite: Permission of instructor

History

Louis Ruchames, Ph.D.,
Professor of History and Chairman of the Department
Paul F. Boller, Ph.D.,
Professor of History
Thomas N. Brown, Ph.D.,
Professor of History
Paul A. Gagnon, Ph.D.,
Professor of History
Richard H. Powers, Ph.D.,
Professor of History
Walter Grossmann, Ph.D.,
Associate Professor of History

Nathan I. Huggins, Ph.D.,
Associate Professor of History
Roger W. Prouty, Ph.D.,
Associate Professor of History
Feroz Ahmad, Ph.D.,
Assistant Professor of History
Van Cleaf Bachman, Ph.D.,
Assistant Professor of History
Lester A. Segal, Ph.D.,
Assistant Professor of History
Renee N. Watkins, Ph.D.,
Assistant Professor of History
William L. Bischoff, B.A.,
Instructor in History
Kathleen Bolster, M.A.,
Instructor in History
Paul Bookbinder, M.A.,
Instructor in History
Harvey Fischtrom, M.A.,
Instructor in History
Clive Foss, M.A., *Instructor in History*
Lester J. Humphreys, M.A.,
Instructor in History
Esther R. Kingston, M.A.,
Instructor in History
Jonathan J. Liebowitz, M.A.,
Instructor in History
Ruth Prelowski Liebowitz, M.A.,
Instructor in History
Joan T. Mark, M.A., *Instructor in History*
Timothy McCarthy, M.A.,
Instructor in History
Mordecai Melnitsky, B.A.,
Instructor in History
Marvin Swartz, M.A., *Instructor in History*
Martha Tolpin, M.A., *Instructor in History*

Graduation Requirements

History majors are required to take History 111-112, 125-126 in their Freshman and Sophomore years, and History 200 or 201 in their Junior year. Their major program must also include 3 hours of course work in Ancient, Medieval or the Early Modern period (before 1648), 6 hours in European history since 1815, and 12 hours from other courses offered in the Department. History majors will ordinarily be expected to fulfill the science requirement by taking Biology and Physics or Chemistry.

Course Offerings

History 111 (I, II), 112 (I, II)
Modern Western Civilization
The historical development of European civilization, ideas and institutions, including America's place in the Western world. Training in oral and written expression.
3 hours, 4 credits each semester Staff

History 125 (I), 126 (II) American History
A survey of American history from 1763 to the present. The expansion and consolidation of the American Union, the development of national and international policies and the cultural and economic forces that shaped them.
3 hours, 4 credits
Prerequisite: History 111-12 Staff

History 200 (I, II)
Seminar in European History
A problems course intended to give training in historical research and writing. The field of study will vary each semester.
3 hours, 3 credits
Prerequisite: History 111-12, 125-26 Staff

History 201 (I, II)
Seminar in American History
Similar to History 200, but dealing with American and Latin American history.
3 hours, 3 credits
Prerequisite: History 111-12, 125-26 Staff

History 205 (I) Greek History
A survey of the origin, rise and development of ancient Greek civilization from the arrival of the Greeks in Europe until the death of Cleopatra. Emphasis on the rise of the Greek city-state and the spread of Greek culture to the East.
3 hours, 3 credits
Prerequisite: Junior standing Mr. Sullivan

History 206 (II) Roman History
The Roman state from its origins until the triumph of Christianity. Republic and Empire will receive equal attention. Closely related to History 205; the 2 courses provide a continuous history of the Mediterranean world from about 700 B.C. to 300 A.D.
3 hours, 3 credits
Prerequisite: Junior standing Mr. Sullivan

History 210 (I) Early Middle Ages
Medieval history from Marcus Aurelius to approximately 1000 A.D.
3 hours, 3 credits
Prerequisite: Junior standing Mr. Percy

History 211 (II) Later Middle Ages
Medieval history from 1000 A.D. to the Italian Renaissance.
3 hours, 3 credits
Prerequisite: Junior standing Mr. Percy

History 231 (I), 232 (II) English History
An introduction to the constitutional, political, economic, social, religious and intellectual history of England. From the eve of the Norman Conquest to Restoration in the 1st semester, from the Restoration to the present in the 2nd.
3 hours, 3 credits
Prerequisite: Junior standing Mr. Moffet

History 233 (I) France: 1495 to 1815
An analysis of the social, economic and political currents that produced absolute monarchy and the Revolution. Some discussion of Enlightenment thought.
3 hours, 3 credits Mr. Liebowitz
Prerequisite: Junior standing

History 234 (II) France: 1815 to the Present
The development of parliamentary institutions, the growth of industry, France's role in the world.
3 hours, 3 credits Mr. Liebowitz
Prerequisite: Junior standing

History 235 (I), 236 (II) Russian History
A survey of the political, economic, social and intellectual development of Russia. From Kiev to the emancipation of the serf (1861) in the 1st semester, through the Soviet Union in the Second World War in the 2nd.
3 hours, 3 credits Miss Kingston
Prerequisite: Junior standing

History 237 (I) German History to 1815
Medieval origins of Germany, the Reformation, the rise of Brandenburg-Prussia, the German Enlightenment, Germany and the French Revolution.
3 hours, 3 credits Mr. Bookbinder
Prerequisite: Junior standing

History 238 (II) German History Since 1815

German liberalism, nationalism, conservatism in 19th Century, revolution of 1848, unification, World War I, Weimar, and the Nazi period.
3 hours, 3 credits Mr. Bookbinder
Prerequisite: Junior standing

History 239 (I), 240 (II)
Age of the Renaissance and Reformation

Men, ideas, and institutions of 14th through 16th Century Europe.
3 hours, 3 credits Mrs. Watkins
Prerequisite: Junior standing

History 250 (I) American Colonial History: The Earliest Settlements to 1763

The English background of emigration and settlement. The evolution of imperial institutions. American social, economic, and religious development; emphasis on political ideas, institutions and behavior in the 17th and 18th Centuries.
3 hours, 3 credits Mrs. Maier
Prerequisite: Junior standing

History 251 (II) American Colonial History: The American Revolutionary Era, 1763-1789

The development of the conflict with Britain, 1763-1776; the Revolutionary War and its effects; the forming of republican institutions for state and federal governments.
3 hours, 3 credits Mrs. Maier
Prerequisite: Junior standing

History 253 (I)
The Age of Jackson and Lincoln

A social, economic, political and cultural history of the United States from 1815 to 1861.
3 hours, 3 credits Mr. Ruchames
Prerequisite: Junior standing

History 256 (II)
The United States in the 20th Century

A study of the emergence of the United States as the world's most formidable power.
3 hours, 3 credits
Prerequisite: History 126 or permission of instructor Mr. Brown

History 257 (I) American Social History

The emergence of social institutions in America from the establishment of colonies to the mid-19th Century.
3 hours, 3 credits Mr. Huggins
Prerequisite: Junior standing

History 258 (II) American Social History from Civil War to the Present

A study of the American Dream as it has related to institutions and ethnic groups in 20th Century U.S.
3 hours, 3 credits Mr. Huggins
Prerequisite: Junior standing

History 260 (I)
History of American Thought I

A history of ideas in America—religious, scientific, political, social, and economic—from the colonial period to the Civil War.
3 hours, 3 credits Mr. Boller
Prerequisite: Junior standing

History 261 (II)
History of American Thought II

A history of ideas in America—religious, scientific, political, social, and economic—from the end of Civil War to New Deal.
3 hours, 3 credits Mr. Boller
Prerequisite: Junior standing

History 308 (II) Europe During the Wars of Religion: 1555-1648

A survey of the Reformation and European politics and national development.
3 hours, 3 credits Mrs. Liebowitz
Prerequisite: Junior standing

History 310 (I) 18th Century Europe: Europe in the Age of Enlightenment

The main currents of European thought in their historical setting.
3 hours, 3 credits Mr. Grossmann
Prerequisite: Junior standing

History 339 (I)
Diplomatic History of Europe: 1815-1914

The diplomacy of the Concert of Europe, the Eastern Question and Bismarckian diplomacy; the diplomacy of imperialism leading to the outbreak of war in 1914.
3 hours, 3 credits Mr. Ahmad
Prerequisite: Junior standing

History 340 (II) Diplomatic History of Europe: 1914 to the Present

The system of collective security established after the War, and the failure of this system before the Second World War. Discussion of the origins and consequences of the Cold War.
3 hours, 3 credits Mr. Ahmad
Prerequisite: Junior standing

Politics

George Goodwin, Jr., Ph.D.,
Professor of Politics and Chairman of the Department
Glenn E. Tinder, Ph.D.,
Professor of Politics
Emil Starr, Ph.D.,
Associate Professor of Politics
David A. Nichols, Ph.D.,
Assistant Professor of Politics
Sanford B. Gabin, M.A.,
Instructor in Politics
Harvey R. Glasser, M.A.,
Instructor in Politics
Gene E. Sharp, M.A.,
Visiting Lecturer in Politics

Graduation Requirements

Politics majors are required to take Politics 121 and 122 and 8 courses above the introductory level. At least 1 upper level course should come from each of these 4 fields: American Government and Politics, Comparative Government and Politics, International Relations, Political Theory.

Course Offerings

Politics 121 (I, II) Contemporary Political Ideas and Institutions

Political ideas, institutions and processes, as illustrated by the Communist, Fascist, and Democratic systems of the 20th Century.
3 hours, 4 credits Staff

Politics 122 (II) Government and Politics of the United States

The three main branches of the national government, federalism, political parties and interest groups, and governmental functions.
3 hours, 4 credits Staff

Politics 201 (I) Political Parties

The American political process, with emphasis on political parties, pressure groups and public opinion.
3 hours, 3 credits Mr. Goodwin
Prerequisite: Junior standing

Politics 212 (II) The Legislative Process

The functions of national and state legislatures, and the role played by political parties and interest groups in the legislative process.
3 hours, 3 credits Mr. Goodwin
Prerequisite: Junior standing

Politics 223 (I) Public Administration

A study of the bureaucratic process, emphasizing organizational behavior, changes in administrative institutions and theories, and the political role of bureaucracy.
3 hours, 3 credits Mr. Hogarty
Prerequisite: Junior standing

Politics 231 (I)
American Constitutional Law and Theory

The development of the United States Constitution, chiefly through decisions of the Supreme Court. Emphasis on the origin and nature of judicial power, the way it inhibits and facilitates operation of the political process, and on the search for standards by which to judge the judges.
3 hours, 3 credits Mr. Gabin
Prerequisite: Junior standing

Politics 241 (I) Metropolitan Politics

Municipal politics, organization and functions; special reference to impact of recent social and economic changes upon city, suburban and intergovernmental politics in metropolitan regions.
3 hours, 3 credits Mr. Nichols
Prerequisite: Junior standing

Politics 244 (II) The Federal System

Consequences of areal division of power for politics at national, state and local levels.
3 hours, 3 credits Mr. Nichols
Prerequisite: Junior standing

Politics 245 (II) State and Local Politics

The dynamics of politics in the 50 states and their localities.
3 hours, 3 credits Mr. Hogarty
Prerequisite: Junior standing

Politics 251 (I)
European Comparative Government

The political institutions of the major European states, such as France, Germany, Great Britain, Italy and the Soviet Union.
3 hours, 3 credits Miss Pattison
Prerequisite: Junior standing

Politics 252 (II)
European Comparative Government

A continuation of Politics 251.
3 hours, 3 credits Miss Pattison
Prerequisite: Junior standing

Politics 254 (II) Government and Politics of the Soviet Union

The historical and ideological origins of the Soviet Union; the role and beliefs of the Communist party under Lenin and Stalin and in the post-Stalin period; contemporary Soviet ideology and Western theories of totalitarianism.
3 hours, 3 credits
Prerequisite: Junior standing Staff

Politics 260 (II)
Resistance, Rebellion and Revolution

A study of the political nature of mass revolution, coup d'etat, guerilla warfare and nonviolent struggle.
3 hours, 3 credits
Prerequisite: Junior standing Mr. Sharp

Politics 301 (I) International Relations

The nation-state system and conceptions of national interest in modern world politics; forms and distribution of power; the making of foreign policy and adjusting international conflict.
3 hours, 3 credits
Prerequisite: Junior standing Mr. Toll

Politics 304 (II) American Foreign Policy

A systematic study of major issues and problems of American foreign policy in the contemporary world.
3 hours, 3 credits
Prerequisite: Junior standing Mr. Toll

Politics 351 (I)
Ancient and Medieval Political Thought

The origins and the early development of the main political ideas of the West.
3 hours, 3 credits
Prerequisite: Junior standing Mr. Tinder

Politics 352 (II) Modern Political Thought

The history of Western political ideas from the time of Machiavelli to that of Marx.
3 hours, 3 credits
Prerequisite: Junior standing Mr. Tinder

Politics 356 (II)
American Political Thought

An analytical and historical study of the development of American political thought and institutions from colonial times. Primary source readings feature the ideas and deeds of those who have shaped the American concept of free government.
3 hours, 3 credits
Prerequisite: Junior standing Mr. Gabin

Politics 391 (I), 392 (II) Seminar

Intensive studies in various important fields in politics. Emphasis placed on independent research.
3 hours, 3 credits
By invitation of the Department

Politics 393 (I), 394 (II) Special Problems

Guided reading. May be used for Honors thesis.
3 hours, 3 credits
By invitation of the Department

Psychology

Bernard P. Rosenblatt, Ph.D.,
Professor of Psychology and Chairman of the Department
Maxwell J. Schleifer, Ph.D.,
Associate Professor of Psychology
Arthur Carlson, Ph.D.,
Assistant Professor of Psychology

Suzanne M. Gassner, Ph.D.,
Assistant Professor of Psychology
Stanley D. Klein, Ph.D.,
Assistant Professor of Psychology
Paul J. Rhudick, Ph.D.,
Assistant Professor of Psychology
Bruce C. Blaney, M.A.,
Instructor in Psychology
Philip M. Helfaer, M.A.,
Instructor in Psychology
Thomas A. Kreilkamp, B.A.,
Instructor in Psychology
Larry Lee Larsen, M.A.,
Lecturer in Psychology
Bernard Levine, Ph.D.,
Visiting Lecturer in Psychology
Lorraine A. Low, Ph.D.,
Visiting Lecturer in Psychology

Graduation Requirements

Psychology majors must take Psychology 122 plus 8 advanced courses, including Psychology 235. Majors who intend to apply to graduate departments of Psychology are strongly advised to take Psychology 271. Students who wish to take an advanced course before their Junior year must have permission of the instructor.

NOTE: For the fall semester of 1968-69, Psychology 235 and 271 will require Senior standing; for the spring semester of 1968-69, Psychology 272 and 273 will also be limited to Seniors, except with permission of the instructor. Prerequisites for Psychology 239 *will* be waived in the fall semester only.

Course Offerings

Psychology 122 (I, II)
Introduction to Psychology: Psychoanalysis and the Study of Man

Basic psychoanalytic concepts applied to the study of man.
3 hours, 4 credits
Prerequisite: Sophomore standing Staff

Psychology 235 (I, II)
Systems of Psychology

An appraisal of major trends in contemporary psychology, based on historical evaluation of the leading concepts.
3 hours, 3 credits Mr. Schleifer
Prerequisite: Junior standing

Psychology 237 (I, II)
Developmental Psychology

Normal and abnormal development of mind and personality, with special emphasis on infancy, childhood and adolescence.
3 hours, 3 credits Mr. Klein
Prerequisite: Junior standing

Psychology 239 (I, II)
Educational Psychology

Application of psychological concepts to education with emphasis on the role of the school, the family, the classroom and the teacher on the educational process.
3 hours, 3 credits
Prerequisite: Junior standing Staff

Psychology 240 (I, II)
Abnormal Psychology

Study of etiology, dynamics and treatment of psychopathology.
3 hours, 3 credits Mr. Rhudick
Prerequisite: Junior standing

Psychology 250 (I, II) Theories and Fundamental Issues of Learning

Review of such basic learning theories as those of Pavlov, Hull, Tolman, Kohlet and attempt to apply theory to selected topics.
3 hours, 3 credits Mr. Rhudick
Prerequisite: Junior standing

Psychology 260 (I, II)
Theories of Personality

A comprehensive treatment of major personality theory, including a history of personality theory.
3 hours, 3 credits Mr. Larsen, Mr. Schleifer
Prerequisite: Junior standing

Psychology 270 (I, II) Social Psychology

A basic survey of social psychology: groups, socialization and attitudes. Special emphasis placed on Freud's views as an integrative theoretical orientation.
3 hours, 3 credits
Prerequisite: Psychology 122 and Junior standing Mr. Carlson

Psychology 271 (I, II)
Experimental Method in Psychology

The historical foundations and development of psychology as a science with focus on the nature of scientific method in general, and experimental method in particular.
3 hours, 3 credits
Prerequisite: Psychology 122; majors only or permission of instructor Staff

Psychology 272 (I, II) Perception

The traditional problems of perception, with focus on the changing perspectives (theoretical) within which these problems are viewed. Evolution in theory from early elementalistic approaches to the more current concern with perception-personality relationships.
3 hours, 3 credits
Prerequisite: Psychology 122 and Junior standing Mr. Krus

Psychology 273 (I, II)
Physiological Psychology

A basic survey of physiological psychology: sensory processes, motor behavior, drives and instincts, arousal and learning.
3 hours, 3 credits
Prerequisite: Psychology 122 Mr. Weiss

Sociology-Anthropology

Richard H. Robbins, Ph.D.,
Professor of Sociology and Chairman of the Department
Gordon C. Zahn, Ph.D.,
Professor of Sociology
John K. Dickinson, Ph.D.,
Assistant Professor of Sociology
Marion Kilson, Ph.D.,
Assistant Professor of Anthropology
Peggy Cook Marquis, Ph.D.,
Assistant Professor of Sociology
Juan E. Corradi, M.A.,
Instructor in Sociology
Lucille N. Kaplan, M.A.,
Part-time Instructor in Anthropology

Graduation Requirements

The Department of Sociology and Anthropology offers a major in Sociology, with the possibility of strong concentration in Anthropology. Majors should take introductory courses in Psychology and Sociology during the Sophomore year and a minimum of 8 additional courses in the Junior and Senior years. Within the major, the Department requires 1 course in Anthropology, Sociology 356, and Sociology 382 (to be taken during the Senior year). At the invitation of the Department, a Senior may take individual directed study with an emphasis on independent research. Majors are encouraged to choose related subjects within the Division of Social Sciences.

Course Offerings

Sociology 121 (I, II)
Introduction to Sociology
An introduction to the structure of society, cultural patterns, and group life. Individual and socialization, groups, institutions, social systems, social change.
3 hours, 4 credits Staff

Anthropology 122 (I, II)
Introduction to Anthropology
A general introduction to social anthropology, with an emphasis on comparative analysis of non-Western peoples, their cultures and social structures, ethnological generalizations from reading on primitive and peasant societies.
3 hours, 4 credits Staff

Sociology 221 (II) The Urban Community
The development of the city as a complex form of the human community. History and growth of urbanism in industrial societies and developing nations. Urban change and the problem of planning.
3 hours, 3 credits
Prerequisite: Sociology 121 and Psychology 122 Mr. Robbins

Anthropology 225 (II) Man in Prehistory
Study of human evolution and man's early cultural development. Integrates traditional physical anthropology and prehistoric archeology. Emergence of hominids and living races of men; analysis of cultural growth in New and Old Worlds.
3 hours, 3 credits
Prerequisite: Sociology 121 or Anthropology 122 Mrs. Kaplan

Anthropology 236 (I)
Comparative Ethnology
Study of the wide range of cultural variation to be found in different world regions. Intensive comparative analysis of representative cultures and social structures.
3 hours, 3 credits
Prerequisite: Sociology 121 or Anthropology 122 Mrs. Ayres

Sociology 252 (I)
Racial and Ethnic Relations
Study of conflicts and accommodations among differing racial and ethnic groups. Nature and character of prejudice and discrimination. Minority-majority relations in selected societies.
3 hours, 3 credits
Prerequisite: Sociology 121 Mrs. Spencer

Sociology 253 (II) Population and Ecology
The population explosion, birth, death and illness. Immigration and emigration. How the human and physical environment interacts with features of population.
3 hours, 3 credits
Prerequisite: Sociology 121 Mr. Dickinson

Psychology 270 (I, II) Social Psychology
Can be credited toward Sociology major. See Psychology Department for description and prerequisite.

Sociology 316 (I)
Social Change and Modernization
Social and economic aspects of development and modernization in various societies. Special emphasis on Latin America.
3 hours, 3 credits
Prerequisite: Sociology 121 and/or Anthropology 122 Mr. Corradi

Sociology 327 (I) Social Stratification
Study of social classes in traditional and industrial societies. Classes, castes and mobility. Theories of class relationships, conflicts. Marxist and other ideologies.
3 hours, 3 credits
Prerequisite: Sociology 121 and Psychology 122 Mrs. Chasin

Sociology 339 (II) Sociology of Religion
Belief systems and social structures of religious groups. Impact of religious systems on familial, economic, political and other institutions.
3 hours, 3 credits Mr. Zahn
Prerequisite: Permission of instructor

Sociology 356 (I, II)
Methods of Sociological Research
Design of sociological research and methods of inquiry. Organization and analysis of data. Development of research projects.
3 hours, 3 credits
Mr. Dickinson, Mrs. Marquis
Prerequisite: Junior standing

Sociology 382 (I, II)
Elements of Sociological Theory
Reading and discussion of basic sociological works in theory. Relevance of earlier and contemporary theory to contemporary sociological interests and research.
3 hours, 3 credits
Prerequisite: Sociology 121 Mr. Zahn

Sociology 399 (I, II)
Directed Study in Sociology
Students may be invited by the Department to conduct independent research during the Senior year. Periodic consultation and guidance provided by the staff.
Hours by appointment; 3 credits
Prerequisite: Sociology 121 and Psychology 122 Mr. Robbins and Staff

Anthropology 399 (I, II)
Directed Study in Anthropology
Students may be invited by the Department to conduct independent research during the Senior year. Periodic consultation and guidance provided by the staff.
Hours by appointment; 3 credits
Prerequisite: Sociology 121 and Psychology 122 Mr. Robbins and Staff

TEACHER CERTIFICATION PROGRAM

The program described below is a tentative response to the problem of preparing teachers who will exercise leadership in the schools. The arrangements will hold, with some minor modifications, for the classes of 1969, 1970 and 1971.

The study currently being made of the certification of teachers in Massachusetts may oblige candidates for admission who will be graduating after 1971 to commit themselves to a certification program quite different in design from that described below. Candidates should also anticipate the preparation for teaching may make demands on their time above and beyond that required to earn an undergraduate degree.

The Teacher Certification Program is designed to enable qualified students to achieve certification in Massachusetts for elementary and secondary teaching by using their electives within the major and degree programs. Students cannot major in Education, but students who complete the program will acquire at least 12 credits for secondary certification or at least 18 for elementary certification.

Use of Elective System

The Certification Program rests on the regular degree and major programs. Upper-class electives (see "cross-referenced course offerings" following) enable students to offer the needed certifying courses by the end of the Senior year. The state is the certifying agency, not the University. Students should pursue their regular degree and major programs and use their electives for courses leading to certification.

Requirements for Admission to TCP Program

To be admitted to the Senior year practice-teaching courses in the Certification Program for secondary and elementary school teachers, students must fall within one of the following groups by the end of the Junior year:

a. at least a 3.0 cumulative average; approval of the major department and of the Coordinator of Practice Teaching.

b. a 2.5-3.0 cumulative average and all transfer students; the support of 2 faculty members in the major department who have had them in class and of the Coordinator of Practice Teaching.

c. a cumulative average of less than 2.5 and those otherwise denied admission; may appeal to the faculty TCP Committee. It is assumed that only extraordinary circumstances will eventuate in favorable decisions.

Note that these standards apply *only* to the Senior year curriculum-and-methods/practice-teaching courses. The standards refer to the student's status at the end of his Junior year.

Outline of University Plans for Teacher Certification Program

Classes of 1969, 1970 and 1971

A. Students seeking secondary certification should elect the following courses:

Junior Year

Psychology of Education	3
Philosophy of Education (recommended but not required)	3
or Appropriate Arts-and-Sciences Education course(s)	

Senior Year

Curriculum-and-Methods course (Concurrent with and an intimate part of the practice teaching; requirements for admission apply.)	3
Practice Teaching (Requirements for admission apply.)	3
Total for Secondary Certification	12 hours

B. Students seeking elementary certification should elect the following courses:

Sophomore Year

General Psychology (recommended but not required)	3
(validated for state certification with course in Educ. Psych.)	

Junior Year

Educational Psychology	3
Philosophy of Education	3
AND	
Appropriate Arts-and-Sciences Education course(s)	3

Senior Year

Curriculum-and-Methods course (Concurrent with and an intimate part of the practice teaching; requirements for admission apply.)	3
Practice Teaching (Requirements for admission apply.)	3
Total for Elementary Certification	18 hours

Practice teaching arrangements are still under development by the Committee but students should expect to spend the equivalent of a half-day every day for a substantial portion of one semester in the schools observing and teaching under the supervision of experienced teachers and University faculty. The demands of some academic major programs may oblige the student teacher to carry a substantial work load during the period of his practice teaching.

ENGLISH (METHODS) COURSE FOR CERTIFICATION:

English 386 (I, II)
Teaching of Secondary School English
Study of the issues and principles of the learning and teaching of secondary school composition, literature and language. Supervision and critique of practice-teaching in the school. See Department of English.
3 hours; 20 hours laboratory (practice-teaching); 6 credits
Prerequisite: 6 hours Education courses

MATHEMATICS (METHODS) COURSE FOR CERTIFICATION:

Mathematics 260 (II)
Elementary Mathematics from an Advanced Standpoint
Advanced plane geometry and application with generalized interpretations of elementary high school topics. See Department of Mathematics.
3 hours; 20 hours laboratory (practice-teaching); 6 credits
Prerequisite: Mathematics 151 and 6 hours Education courses

ELEMENTARY SCHOOL (METHODS) COURSE FOR CERTIFICATION:

TCP 390 (I, II)
Seminar in Elementary School Curriculum and Methods of Practice-Teaching
Intensive study of classroom problems and techniques.
3 hours; 20 hours laboratory (practice-teaching); 6 credits
Prerequisite: 12 hours Education courses

FACULTY OF RESIDENT INSTRUCTION
1967-1968

Rose Abendstern, *B.A. (Hunter College), M.A., Ph.D. (Bryn Mawr College), Assistant Professor of French.*

Nina Adolph, *B.S. (Simmons College), M.A. (Brandeis), Instructor in English.*

Feroz Ahmad, *B.A. (St. Stephen's College, Delhi University), M.A., Ph.D. (London University), Assistant Professor of History.*

Mary Lee Allen, *B.A. (Wellesley College), M.A. (University of Michigan), Ph.D. (Stanford University), Assistant Professor of English.*

Luis Ricardo Alonso, *Doctor in Ciencias Sociales (Havanna University), Visiting Lecturer in Spanish.*

Lourdes E. Alvarez, *B.A. (Havanna University), Lecturer in Spanish.*

Anita Anger, *B.A. (Carleton College), M.A. (Radcliffe College), Part-time Lecturer in English.*

J.-P. Anselme, *B.A. (St. Martial College), B.S. (Fordham University), Ph.D. (Polytechnic Institute of Brooklyn), Associate Professor of Chemistry.*

Marvin M. Antonoff, *B.S., M.A. (New York University), Ph.D. (Cornell University), Associate Professor of Physics.*

Renee Arb, *B.S., M.A., Ph.D. (Radcliffe College), Assistant Professor of Art.*

Alfonso G. Azpeitia, *M.S., Ph.D. (University of Madrid), Professor of Mathematics.* (On leave 1967-68.)

Van Cleaf Bachman, *B.A. (Princeton University), Ph.D. (Johns Hopkins University), Assistant Professor of History.*

Jose de Jesus Barba-Martin, *B.A. (Collegium Maximum, Rome, Italy), M.A. (Tufts University), Instructor in Spanish.*

Rosemary Barton, *B.A. (Smith College), M.A.T. (Harvard University), M.A. (Tufts University), Instructor in Classics.*

Adrianne Baytop, *B.A. (Howard University), M.A., Ph.D. (University of Massachusetts), Assistant Professor of English.*

Ernest I. Becker, *B.S., M.S., Ph.D. (Western Reserve University), Professor of Chemistry.*

Ruth R. Bennett, *B.S., Ph.D. (Tufts University), Assistant Professor of Biology.*

Alan Berger, *B.A. (Harvard University), M.A. (Cornell University), Part-time Lecturer in French.*

Martha Bethell, *B.A. (University of Rochester), Ph.D. (Brandeis University), Assistant Professor of Biology.*

Josette Betkoune, *Diplôme d'Etudes Superieures ès Sciences Economiques (University of Paris), Instructor in French.*

William L. Bischoff, *B.A. (Stanford University), Instructor in History.*

Joel Blair, *B.A. (Texas University, M.A., Ph.D. (Harvard University), Assistant Professor of English.*

Bruce C. Blaney, *B.A. (Clark University), M.A. (Harvard University), Instructor in Psychology.*

Max Bluestone, *B.N.S. (College of Holy Cross), M.A., Ph.D. (Harvard University), Associate Professor of English.*

Andrew Boelcskevy, *B.A. (West Virginia University), M.A. (University of Pennsylvania), Instructor in German.*

Paul F. Boller, *B.A. (Yale College), Ph.D. (Yale University), Professor of History.*

Kathleen Bolster, *B.A. (Pacific University), M.A. (Brandeis University), Instructor in History.*

Pierre-Yves Bouquet, *Licence ès lettres (Sorbonne), Diplôme de l'Ecole Nationale des Langues Orientales Vivantes (University of Paris), Part-time Lecturer in French.*

Charles Bowen, *B.A. (University of Notre Dame, M.A. (Yale University), Instructor in English.*

Paul Bookbinder, *B.A. (Queens College), M.A. (Northeastern University), Instructor in History.*

Stuart W. Bradford, *B.S., M.S. (Michigan State University), Ph.D. (Washington University, St. Louis), Assistant Professor of Biology.*

Patricia Brennan, *B.S. (Tufts University), M.S. (Georgetown University), Lecturer in Biology.*

James H. Broderick, *B.A. (Harvard College), M.A. (University of Chicago), Ph.D. (Harvard University), Associate Professor of English.*

Luise Bronner, *B.S. (University of Rhode Island), M.A. (University of Massachusetts), Instructor in German.*

Thomas N. Brown, *B.S. (Boston College), M.A., Ph.D. (Harvard University), Professor of History.*

Frederick Busi, *B.A. (American International College), M.A., Ph.D. (University of Connecticut), Assistant Professor of French.*

David Buskey, *B.A. (University of Massachusetts), Part-time Lecturer in French.*

Livia Calice, *B.A. (University of Massachusetts), Instructor in French.*

Charles Campbell, *B.A. (University of Massachusetts), M.A. (University of Chicago), Ph.D. (University of Minnesota), Assistant Professor of English.*

Arthur R. Carlson, *B.A. (Clark University), Ph.D. (University of Illinois, Urbana), Assistant Professor of Psychology.*

Antonio F. Carrara, *B.A., M.A. (Boston College), Instructor in Italian.*

Adolph Caso, *B.A. (Northeastern University), M.A. (Harvard University), Part-time Lecturer in Italian.*

Kenneth Cerny, *B.S. (Marietta College), Lecturer in Chemistry.*

Christopher Chase, *B.A. (Wesleyan University), M.A. (Indiana University), Part-time Lecturer in English.*

Geoffrey Clive, *B.A. (Colgate University), Ph.D. (Harvard University), Visiting Associate Professor of Philosophy.* (On leave 1967-68.)

Carl Cohen, *Studienreferendar, Studienassessor (University of Frankfurt), M.A. (Harvard University), Lecturer in Mathematics.*

Marjorie Collins, *B.A. (University of Wales), M.A. (Hunter College), Ph.D. (University of Michigan), Assistant Professor of English.*

Juan E. Corradi, *B.A., M.A. (Brandeis University), Instructor in Sociology.*

Mary D. Curran, *B.A. (University of Massachusetts), M.A., Ph.D. (University of Iowa), Professor of English.*

Arleen Dallery, *B.A. (Bryn Mawr College), M.A. (Yale University), Instructor in Philosophy.*

Jacqueline Fouré DeSuze, *B.A. (Ohio State University), M.A. (University of Wisconsin), Diplôme d'Etudes de Français (University of Grenoble), Diplôme d'Etudes Supeurieures de Français (Sorbonne, University of Paris), Instructor in French.*

Lynn F. Dhority, *B.A. (University of Colorado), Ph.D. (Harvard University), Assistant Professor of German.*

Deanne Dickinson, *B.S., Ph.D. (Massachusetts Institute of Technology), Assistant Professor of Mathematics.*

John K. Dickinson, *Ph.D. (University of Marburg), Assistant Professor of Sociology.*

Priscilla E. Doff, *B.S. (Tufts University), Lecturer in Biology.*

Ernest P. Dubois, *Eidg. Techn. Hochschule Zurich, Diplom der Mathematik, Doktor der Mathematik, Assistant Professor of Mathematics.*

David Edsall, *B.A. (Haverford College), M.A. (Harvard University), Instructor in Russian.*

Bernard Elevitch, *B.A. (University of Minnesota), Ph.D. (Columbia University), Assistant Professor of Philosophy.*

Louis Esposito, *B.A. (St. Peter's College), M.A., Ph.D. (Boston College), Assistant Professor of Economics.*

Robert R. Evans, *B.A. (Harvard University), Ph.D. (Brandeis University), Assistant Professor of English.*

Alfred Riggs Ferguson, *B.A. (College of Wooster), M.A., Ph.D. (Yale University), Professor of English.*

Mary Anne Ferguson, *B.A., M.A. (Duke University), Ph.D. (Ohio State University), Lecturer.*

John D. ffolliott, *M.B.A. (University of Western Ontario Business School), Visiting Lecturer in Economics.*

Martha Finney, *B.A. (Stanford University), M.A. (University of Iowa), Instructor in English.*

Harvey Fischtrom, *B.A. (Wesleyan University), M.A. (Brandeis University), Instructor in History.*

Jeffrey M. Fisher, *B.A. (Cambridge University), Visiting Lecturer in Economics.*

Clive Foss, *B.A. (Harvard College), M.A. (Harvard University), Instructor in History.*

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